



## FINAL PROGRAM

### SUNDAY, 08.04.2018

13.00 – 14.30	Registration	
14.30 – 17.00	Welcome Speech	<b>COHERENT RAMAN SCATTERING I</b>
	<i>Keynote:</i> <b>Broadband Coherent Raman Microscopy</b> , Marcus T Cicerone (NIST, USA)	
	<b>Fingerprint-to-CH stretch region fast tunable Stimulated Raman Scattering microscope</b> , Siarhei Laptinok (KAUST, Saudi Arabia)	
	<b>Raman spectroscopy of graphene in the light of ultrafast laser excitation</b> , Tullio Scopigno, "Sapienza" University, Rome (Italy)	
	<b>Background-free 3-colour quantitative broadband CARS with passive polarisation optics</b> , Priyank Shah (King's College London, UK)	
	<b>Shaper based Infrared Spectroscopy in a non-linear Raman setup</b> , Niklas Müller (University of Heidelberg, Germany)	
17.00 – 19.00	Get together with happy hour and live jazz music	

### MONDAY, 09.04.2018

09.00 – 10.45	<i>Invited:</i> <b>Dual-phase stimulated Raman scattering microscopy for rapid, label-free histology</b> , Minbiao Ji, Fudan University (Shanghai, China)	<b>COHERENT RAMAN SCATTERING II</b>
	<b>Detection of Five High Production Volume Polymers in Sediment and Personal Care Product Samples using Stimulated Raman Scattering Microscopy</b> , Liron Zada, Vrije Universiteit Amsterdam (The Netherlands)	
	<b>Self-Healing Polymers Studied by Coherent anti-Stokes Raman Scattering and Laser Reflection Microscopy</b> , Michael Schmitt, Friedrich Schiller University (Jena, Germany)	
	<b>Reconstruction of CARS Signals Generated by means of Chirped Laser Pulses</b> , Michele Marrocco, ENEA (Rome, Italy)	
	<b>Multimodal nonlinear microscopy with in-line balanced-detection stimulated Raman scattering</b> , Vikas Kumar, Politecnico di Milano (Italy)	

10.45 – 11.15		COFFEE BREAK	
11.15 – 13.00	<b><i>Invited:</i> Optical Biopsies by means of Multimodal Nonlinear Imaging</b> , Jürgen Popp, Jena (Germany)	COHERENT RAMAN FOR HISTOLOGY AND BIOLOGY	
	<b>Quantitative broadband CARS imaging detection of the effect in vivo of a lipid metabolism altering natural drug in <i>C. elegans</i></b> , David Richards, King's College London (UK)		
	<b>Ultra-fast stimulated Raman imaging microscopy: An alternative to histology?</b> , Hervé Rigneault, Institut Fresnel (Marseille, France)		
	<b>CARS imaging: a new tool for the neurosurgeon</b> , Roberta Galli, TU Dresden (Germany)		
	<b>A miniature, fibre-scanning SRS microscope and its application to label- free imaging of histology slides</b> , Alberto Lombardini, Institut Fresnel (Marseille, France)		
13.00 – 15.00		LUNCH and EXPOSITION	
15.00 – 17.00	<b><i>Invited:</i> Non-linear spectroscopy of single molecules and nanoantennas</b> , Niek Van Hulst, ICFO (Barcelona, Spain)	PLASMONICS, MICROSCOPY NON-LINEAR DYNAMICS	
	<b>Sum frequency generation microscopy</b> , Andreas Zumbusch, University of Konstanz (Germany)		
	<b>Ultrafast orbital manipulation and Mott physics in vanadium oxides</b> , Claudio Giannetti, Università Cattolica del Sacro Cuore (Brescia, Italy)		
	<b>Real-Time Spectroscopy and Control of Soliton Molecules in a Few-Cycle Laser Oscillator</b> , Georg Herink, University of Bayreuth (Germany)		
	<b>Plasmon-enhanced Second-Harmonic Sensing on a Microfluidic Chip</b> , Lavinia Ghirardini, Politecnico di Milano (Italy)		
17.00 – 19.00		POSTER SESSION with HAPPY HOUR	

## TUESDAY, 10.04.2018

09.00 – 10.40	<b>Hot electrons cooling dynamics in encapsulated graphene</b> , Eva Pogna, Politecnico di Milano (Italy)	<b>PUMP PROBE AND 2-DIMENSIONAL SPECTROSCOPY</b>
	<b>Ultrafast Coherent Oscillations Of Optical Phonons In Single Layer MoS<sub>2</sub></b> , Chiara Trovatello, Politecnico di Milano (Italy)	
	<b>Ultrafast 2DIR Spectroscopy of a Quasi-Free Rotor in Dense Gas and Near- Critical Fluids: J-scrambling, Ro-vibrational Dynamics, and the Onset of Liquid Character</b> , Lawrence Ziegler, Boston University (USA)	
	<b>Non-equilibrium photophysics of layered two-dimensional semiconductors</b> , Christoph Gadermaier, Jozef Stefan Institute (Ljubljana, Slovenia)	
	<b>Charge-Pair Dynamics Investigated in Organic Semiconductors with Femtosecond Temporal and Nanometer Spatial Resolution</b> , Arnulf Materny, Jacobs University Bremen (Germany)	
10.40 – 11.10	COFFEE BREAK	
11.10 – 12.30	<i>Invited:</i> <b>Femtosecond Coherent Anti-Stokes Raman Scattering: Recent Applications and the Surprisingly Beneficial Effects of Moderate Pump and Stokes Chirp</b> , Robert Lucht, Purdue University (USA)	<b>THERMOMETRY</b>
	<b>Temperature and Gas Concentration Measurements with Two-beam Femtosecond Coherent Anti-Stokes Raman Scattering (fs-CARS) and Spontaneous Raman Scattering (SRS)</b> , Yang Ran, Abbe Center of Photonics (Jena, Germany)	
	<b>Spontaneous and coherent Raman scattering for thermometry in reactive flows</b> , Rosa Santagata, ONERA (Palaiseau, France)	
12.30 – 14.00	LUNCH and EXPOSITION	
14.00 – 19.00	SOCIAL EVENT	
19.00 – ...	SOCIAL DINNER	

## WEDNESDAY, 11.04.2018

09.00 – 10.45	<b><i>Invited:</i> High-speed multicolor metabolite imaging with stimulated Raman scattering</b> , Yasuyuki Ozeki (University of Tokyo, Japan)	STIMULATED RAMAN SCATTERING
	<b>Interferometric Fourier transform stimulated Raman scattering</b> , Dario Polli, Politecnico di Milano (Italy)	
	<b>Visualising Agrochemical Uptake Kinetics Through Wax with Stimulated Raman Scattering</b> , Nicholas Gaunt, University of Exeter (UK)	
	<b>Vibrational Spectroscopic Mapping Reveals Spatial Distribution of Agrochemicals and Water Uptake in Plant Seeds</b> , Chun-Chin Wang, University of Exeter (UK)	
	<b>Stimulated Raman scattering: some relevant aspects in nano and biophotonics</b> , Luigi Sirleto, CNR (Napoli, Italy)	
10.45 – 11.15	COFFEE BREAK	
11.15 – 13.00	<b>Recent advances in OPO based CRS- light sources: larger tuning range, fast tuning and FM-SRS concepts</b> , Ingo Rinke, APE GmbH (Berlin, Germany)	NOVEL NONLINEAR SPECTROSCOPY TECHNIQUES
	<b>Development in Stimulated Raman Scattering technique for rapid histopathological imaging</b> , Saleh Alghamdi, University of Exeter (UK)	
	<b>Fast Single-Pixel Microspectroscopy Using Low-Rank Matrix Estimation</b> , Fernando Soldevila, Ecole Normale Supérieure (Paris, France)	
	<b>Enhancing spectral brightness in an optical supercontinuum using shaped pulsed trains</b> , Venkata Jayasurya Yallapragada, Weizmann Institute of Science (Rehovot, Israel)	
	<b>Thermal lens detection of two-color laser absorption in solutions of benzene and naphthalene</b> , Carlos E. Manzanares, Baylor University (Texas, USA)	
	<b>Measurement of Raman-induced spectral shift and Kerr lensing</b> , Dekel Raanan, Weizmann Institute of Science (Rehovot, Israel)	
13.00	<b>Concluding remarks. Introduction of the venue of the coming ECONOS 2019 conference.</b>	