

AGENDA

Sunday, November 26, 2023 // Restaurant Scala	
18:00	Welcome Reception Registration & Dinner
Monday, November 27, 2023 // Leibniz Institute of Photonic Technology	
9:00	Welcome Note Chairs – Juergen Popp, Jennifer Barton
9:30	Introductory Talk about Jena OPTONET
9:50	Coffee Break
10:10	Workshop by Schiller & Mertens I
12:10	Lunch Break
13:00	Workshop by Schiller & Mertens II
15:00	Coffee Break
15:30	Career Report Ulrike Fuchs – VP Strategy & Innovation / Asphericon GmbH, Jena, Germany
16:00	Poster Session with Snacks
Tuesday, November 28, 2023 // Leibniz Institute of Photonic Technology	
9:00	Bioimaging I Chair Jennifer Barton
Franca auf der Heiden Forschungszentrum Jülich, Germany P 1-1 A Scattering Polarimeter for Multi-Modal Neuroimaging	
Prajakta Belekar Medical University of Vienna, Austria P 1-2 Improved Evaluation of Retinal Hemodynamic Response using Contrast-Enhanced OCTA	
Glitta Rosalia Cheeran Leibniz IPHT, Jena, Germany P 1-3 Nonlinear Dynamics in Optical Fibers for Sensing Applications	
Niusha Bagheri KTH Royal Institute of Technology Stockolm, Sweden P 1-4 Non-fluorescent Transient States of Tyrosine – a Basis for Label-free Protein Conformation and Interaction Studies	
Yessenia Jauregui-Sánchez Queen's University Belfast, UK P 1-5 Correlation-based Imaging of Moving Objects in Complex Media	
Milana Kendrisic Medical University of Vienna, Austria P 1-6 Low-cost SS-OCT System for Ophthalmic Imaging Based on a Thermally-tunable VCSEL Diode	
Eloïse Lefebvre PhLAM Laboratory, Villeneuve d'Ascq, France P 1-7 Endoscopic 3PEF and THG Imaging Using a Standalone Rack	
Ewa Mączyńska-Walkowiak Nicolaus Copernicus University, Torun, Poland P 1-8 Non-contact Probing of Corneal Biomechanics – Technology Development and Clinical Significance	
Silvia Noble Anbunesan University of California, Davis, USA P 1-9 Intraoperative Detection of Glioma Infiltrating Edges: Comparative Analysis Between Interventional Fluorescence Lifetime Imaging (iFLIm) and Preoperative MRI-based Neuronavigation	
10:40	Coffee Break
11:10	Career Opportunities in Academia and Industry Chair Jens Hellwage
11:15	LEG Thüringen, Leibniz IPHT, Fraunhofer IOF, Active Fiber Systems GmbH, TRUMPF
12:10	Lunch Break
13:00	Plasmonic / Quantum Chair Daniela Täuber
Roberta D'Agata University of Catania, Italy P 2-1 Plasmonic Sensor For Fetal Sex Determination: A Turning Point In Non-invasive Prenatal Diagnosis	
Sarabjeet Kaur Universite de Technologie de Troyes, France P 2-2 Plasmonics for the Detection of Bio-hazardous Molecules Using DNA Probes	
Apama Praturi Tata Institute of Fundamental Research, Hyderabad, India P 2-3 Spin-Hall Effect opf Light: a Novel Tool for Biosensing	
Mai Sallam Nile University, Giza, Egypt P 2-4 Plasmonic Transmission Line Mode Solver and its Applications in Optical Communications	
Nicole Slesiona Cardiff University, UK P 2-5 Four Wave Mixing Imaging for the Detection of Gold Nanoparticle Internalisation into Living Cells at the Single Particle Level	
Ekaterina Zossimova University of Exeter P 2-6 Predicting Biosensor Signals Using the Reactive Sensing Principle	
Elena Hardt Leibniz Institute for High Performance Microelectronics, Frankfurt / Oder, Germany P 2-7 Use of Ultra-highly Doped Plasmonic Ge Antenna on Si / SiO Substrates to Investigate the Interaction Between Human Serum Albumin and Hemin in the THz Range	
Hira Asif Akdeniz University Antalya, Turkey P 3-1 Control of Plasmon Induced Extraordinary Optical Transmission	
Beatriz Costa INL – International Iberian Nanotechnology Laboratory, Portugal P 3-2 Photonic Quantum Nanosensors for Subcellular Neuronal Signaling	
14:40	Coffee Break
15:10	Spectroscopy I Chair Ute Neugebauer
Aleksandra Borek-Dorosz Jagiellonian University Krakow, Poland P 4-1 Change in Metabolism of Endothelial Cells from Glucose to Fatty Acids Studied by Raman Spectroscopy	
Cassia Corso Silva Polish Academy of Sciences, Warsaw, Poland P 4-2 Tunable Dual-wavelength Light Source for Stimulated Raman Scattering Imaging	
Caterina Dallari European Laboratory for Non-Linear Spectroscopy, Florence, Italy P 4-3 Smart Optical Assay Based on Novel Bioorthogonal SERS Nanoprobes for the β-amyloid Peptide Quantification	
Chiara Deriu Politecnico di Torino, Italy P 4-4 Pre-adsorbed Species on Colloidal Nanoparticles as Deciding Factors of a SERS Measurement Outcome	
Izabella Jahn Leibniz IPHT, Jena, Germany P 4-5 When More Expensive Does not Mean Better: Noise Sources and Requirements for Confocal Raman Spectrometers in Biosensor Applications	
Bilgi Kip The University of Edinburgh, UK P 4-6 Incorporation of Optical Sensors into a Live Cystic Fibrosis (CF) Airway-on-chip Device to Study Tissue Repair and Response to Therapy	
16:10	End
18:00	Networking Dinner Career Report by Jennifer Barton, Dinner at the ZEISS Planetarium
Wednesday, November 29, 2023 // Leibniz Institute of Photonic Technology	
9:00	Bioimaging II Chair Anja Silge
Pauline Pfeiffer Chalmers University of Technology, Göteborg, Sweden P 1-10 A Toolbox to Internally Label and Study Nucleic Acids <i>In Vitro</i> and Inside Cells	
Maria Romodina Max Plank Institute for the Science of Light, Erlangen, Germany P 1-11 Optical Coherence Tomography and Endoscopy for Biomedical Applications	
Afshan Shirkavand Medical Laser Research Centre, Teheran P 1-12 Treatment Response Monitoring of Human Melanoma Skin Cancer Using Diffuse Reflectance Spectroscopy	
Dafne Suraci LENS – European Laboratory for Non-Linear Spectroscopy, Florence, Italy P 1-13 Time-resolved Autofluorescence Imaging of Freshly Excised Liver Biopsies Using an Optical Fiber Probe	
Michaela Taylor-Williams University of Cambridge, USA P 1-14 Development of Spectral Imaging Techniques to Image the Nailfold Capillaries	
Anna Mühlig Universitätsklinikum Jena, Germany P 1-15 Biophotonic Imaging Approaches for Head and Neck Cancer Diagnosis and Therapy	
10:10	Career Report
10:40	Coffee Break
11:20	Career Opportunities in Industry Chair Gabriele Hamm
11:20	Coherent, ams OSRAM, ZEISS, Jenoptik, HUAWEI
12:10	Lunch Beak
13:00	Spectroscopy II Chair Dana Cialla-May
Anna Nowakowska Jagiellonian University Krakow, Poland P 4-7 Raman Spectroscopy to Track Metabolism in Leukemic Cells and Support Diagnosis	
Ayse Mine Saridag Gaziantep Universty, Turkey P 4-8 SERS-based Immunoassay for Detection of Cancer Protein Biomarkers on Diatomite Biosilica	
Alexis Weber University at Albany, USA P 4-9 Taking Research to the Next Level: Commercialization of the First Universal Tool for Forensic Body Fluid Traces	
Cherine Alaouta Université Reims, France P 4-10 Development of High-Throughput Raman Imaging to Investigate the Efficacy of Doxifluridine Squalenoyl Nanomedicine on Single Breast Cancer Cells	
Diana Galiakhmetova Aston University, Birmingham, UK P 4-11 Non-invasive Optogenetics: Pipedream or Impending Reality?	
Anusha Puliparambil Thilakan School of Advanced Sciences, Vellore, India P 4-12 Improved Efficiencies of Perovskite Solar Cell Investigated by Femtosecond Laser Pulses	
Elisa Grassi King Abdullah University of Science and Technology, Thuwal, Saudi Arabia P 4-13 Frequency-modulation Stimulated Raman Scattering Microscopy with an Acousto-optic Tunable Filter	
14:30	Coffee Break
15:00	Optics / Fiberoptics Chair Katrin Wondraczek
Zuzana Adams The University of Arizona, USA P 5-1 Development of a Multiphoton Microendoscope System for Minimally Invasive Detection of Cancer	
Sanober Farheen Memon University of Limerick, Ireland P 5-2 Fabrication and Performance Analysis of a Novel LPG-Inscribed Plastic Optical Fibre Heterocore Structured Sensor for Microalgal Bioethanol Production Applications	
Rashmi Achla Minz Indian Institute of Science Education and Research Kolkata, India P 5-3 Fiber Optic Nano Tip Fabrication for Optical Trapping and Sensing Application	
Ramona Scheibinger Leibniz IPHT, Jena, Germany P 5-4 Tailorable Supercontinuum Generation in Liquid-Core Optical Fibers	
Sonam Berwal Central Scientific Instruments Organisation Chandigarh, India P 5-5 Toric Eyeglasses for Correction of Astigmatism in Indian Eyes	
Monika Bouet University of Lille, France P 5-6 New Polarisation-maintaining (PM) Optical Fibres for Possible Application in Micro-endoscopy	
16:00	End of Session Program
17:00	Visit of Christmas Market
Thursday, November 30, 2023 // Leibniz Institute of Photonic Technology	
Laboratory-Tours	