

	Monday Sep. 3 <sup>rd</sup>		Tuesday Sep. 4 <sup>th</sup>		Wednesday Sep. 5 <sup>th</sup>		Thursday Sep. 6 <sup>th</sup>		Friday 7 <sup>th</sup>	
	Session A	Session B	Session A	Session B	Session A	Session B	Session A	Session B	ESF	
8:30-9:00	OFFICIAL OPENING		NEAR-FIELD MICROSCOPY Chair: D. Courjon	CHIRAL PLASMONICS Chair: A. Dereux	THZ AND INFRARED NEAR-FIELD MICROSCOPY Chair: C. Lienau	HYBRID PHOTONIC STRUCTURES Chair: J. Krenn	ACOUSTICS AND FORCES IN NANOOPTICS Chair: R. Bacholot		EMISSION Chair: A. Meixner	ESF 1 Chair: S. Maier, Maier. New concepts for plasmonic biosensing based on hybrid plasmonic modes
9:00-9:30	OPENING TALK: Lukas Novotny: 20 years of NFO		Hartschuh: New directions in tip-enhanced near-field optical microscopy.	Giesen: Complex plasmonic nanostructures: moving towards applications	Han: Quantitative Spectroscopic Terahertz Near-Field Microscopes.	Benson: Fundamental Photonic Hybrid Systems based on Defect Centers in Diamond.	Mlayah: Acousto-Plasmonics sensing	Koenderink: Near-field measurement and manipulation of antenna-enhanced spontaneous emission	Fritzsche: Biosensing at the single particle level	
	NANO-RAMAN Chair: F. Kellmann	NANOPHOTONICS Chair: O. Martin								
9:30-9:45	Wickramasinghe: Raman Probe Force Microscopy - a New Method to Detect the Raman Effect	Di Fabrizio: Nanostructures and their use in nano optics	Lewis: Near-field optical fluorescence correlation spectroscopy	G <sup>3</sup> Exarr: Superchiral near fields; 'twisted' hot spots in optical nanoantennas	Kim: Strong coupling between nano-slot antenna and nano-object below skin-depth limit	Vasa: Real-time observation of ultrafast Rabi oscillations between excitons and plasmons in metal-molecular hybrid nanostructures	Arbout: Intense optical near-fields and mechanical vibrations: Femtosecond spectroscopy of large crystalline gold nanoparticles	Chen: Metallo-dielectric antennas for ultrastrong enhancement of spontaneous emission	Krenn: Tuning plasmon modes for biosensing	
9:45-10:00			Kim: Stacking structures of multilayer graphenes revealed by infrared near-field microscopy	Klimov: Engineering of radiation from chiral molecules with chiral nano-meta-particles	Mitrofanov: Terahertz probe for spectroscopy of sub-wavelength objects	Celebrano: Assembly and manipulation of nanophotonic elements in a fluid: towards reconfigurable photonic structures on a chip	Yamazaki: Single molecule DNA analysis using a large electric field gradient at Si nanopore opening	Dostalek: Plasmon-enhanced fluorescence for biosensor applications		
10:00-10:15	Deckert: TERS Mapping of an (A10C15)8 DNA Single Strand	Halas: Nanoplasmonics applications: hot electrons, bubbles and whistles	Deckert: Mapping of single insulin fibrils with TERS	Naruschimg: Direct Imaging of Nanoscale Circular Dichroism	Jones: Thermal Near-field Optical Spectroscopy	Vitry: Near-field patterns and geometric resonances in heterogeneous nanoparticle arrays	Renaut: Optical tweezing with nanobeam coupled cavities	Kajihara: Nano-thermometry with a sensitive infrared near-field microscope	Quaidant: Towards an integrated plasmonic platform for early cancer diagnosis	
10:15-10:30	Hayazawa: Highly reproducible TERS as a tool for everyone	Curto: Magnetic and electric multipolar interactions with nanoantennas	Neogi: Nanoscale Strain mapping from active region of InGaN emitters	Hentschel: Three-dimensional chiral plasmonic oligomers	Albella: Quantitative evaluation of the electromagnetic mechanism of surface-enhanced light scattering at single hot spots	Leonetti: Mode-locking in disordered lasers	Nieto Vesperinas: Optical forces on small particles from partially coherent light. The near field of statistically homogeneous fluctuating sources	Bharadwaj: Electrical excitation of surface plasmons		
10:30-11:00	Coffee Break		Coffee-Break		Coffee-Break		Coffee-Break		Coffee-Break	
	SCANNING PROBE MICROSCOPY Chair: J. Gerton	OPTICAL ANTENNAS Chair: H. Xu	TERS AND SERS Chair: V. Deckert	AMPLIFICATION AND QUANTUM EFFECTS Chair: J.-J. Greffet	NONLINEAR NANOOPTICS Chair: W. Dickson	IMAGING Chair: D. Kim			ESF 2 Chair: N. Van Hulst	
11:00-11:30	Dong: Plasmon mediated single molecular optoelectronics	Yang: Driving Resonances In Plasmonic Nanoantennas By Electrons and Photons	Sub: Nano-gap Enhanced Raman Scattering (NERS) controlled by DNA	Stockman: Spasing and Amplification in Plasmonic Nanosystems	Bouhelier: X(2) processes in electrically contacted optical gap antennas: second harmonic generation and optical rectification	Dorfmueller: Real-Space Imaging of Optical Nanoantennas by apertureless SNOM			Leosson: New fabrication approaches in low-loss plasmonics and controlled self-assembly of metal nanostructures for biosensing	
11:30-11:45	Meixner: Tip-enhanced near-field optical spectroscopy in a tunneling junction	Kern: Atomic-scale confinement of optical fields	Augié: Combined SPR and SERS spectroscopy on a flat metal surface	Fedyanin: Surface plasmon polariton amplification upon electrical injection: towards active plasmonic interconnects	Huttunen: Second-harmonic generation imaging of individual metal nano-objects with cylindrical vector beams	Le Feber: Towards a complete vectorial mapping of electromagnetic near-fields	Discussion panel Chaired by Naomi Halas and Kobus Kuipers		Hoeppe: Single Sphere and Self-similar Colloidal Nanoparticle Antennas for Membrane Protein Imaging	
11:45-12:00	Skarvada: Local diagnostics of defects in monocrystalline silicon solar cells	Martin: Optical transport in plasmonic break junctions	Ando: Surface-enhanced Raman nano-imaging of cellular transport pathways with endocytosed gold nanoparticles	Nordlander: Quantum Plasmonics and Plexiconics	Barbosa: Design of a nanorod metamaterial for enhanced fast nonlinearities	Bachelot: Near-Field Characterization Based on Nanoscale Photo-Polymerization				
							FABRICATION Chair: P. Gucciardi	FUNDAMENTAL NEAR-FIELD OPTICS. Chair: O. Keller		
12:00-12:15	Klein: Double-tip scanning near-field optical microscopy - instrumentation and application to plasmonics	Hohenau: Revisiting polycrystalline gold nanoparticles: optical near-fields and dielectric function	Feldj: Revisiting surface enhanced Raman scattering on realistic lithographic gold stripes	Esteban: Quantum effects induced by tunneling in large plasmonic systems	Bertelot: Silencing of second harmonic in coupled antennas	Rewitz: Spectral-interference microscopy for characterization of functional plasmonic elements	Fischer: Near - field photo - chemical fabrication of chemical nanostructures	Carminat: Time-domain radiation by subwavelength sources: A new look at near-field optics	Käll: Nanoplasmonic biosensing - promises and problem	
12:15-12:30	Lewis: Addressing the inverse problem of imaging a noniterative exact solution for phase in imaging	Zabala: Transport and sensing in the optics of plexitons at nanoparticle dimer nanocavities	Gucciardi: Polarization properties of SERS from randomly oriented molecules on gold nanowires	David: Nonlocal effects in plasmonic devices	Biagioni: Unraveling four-photon photoluminescence in gold nanoantennas	Gersen: Imaging individual gold nanoparticles through Interferometric Cross-Polarization Microscopy	Umakoshi: Fabrication of near-field plasmonic tip by photoreduction for strong enhancement in tip-enhanced Raman spectroscopy	Greffet: Validity of macroscopic electrodynamics at the nanoscale for dielectrics		
12:30-12:45	Gréusard: The topography of light	Massiot: Sub-wavelength nano-antennas for efficient ultra-thin solar cells	Blum: Amide I Mode Missing in Tip-Enhanced Raman Spectroscopy?	Vermetz: Transformation optics description of nonlocal effects in plasmonic nanostructures	Abb: Interference and nonlinear response through coupling of higher order modes in asymmetric dimer antennas	Rotenberg: Understanding plasmon - single subwavelength hole interactions	Bragas: Nanofabrication and in situ optical characterization of plasmonic probe tips	Courjon: Does a single illuminated slit lead to interference-like fringes in the double-slit experiment?	Closing talk: Van Hulst	
12:45-13:00							Härtling: IR optical properties of nanoantennas with photochemically narrowed gaps in the 1-nm-regime	Lavardant: Spatial coherence properties of surface plasmon polariton investigated by Young Slits experiment		
13:00-14:15	Lunch		Lunch		Lunch		Lunch		Official closing	
	IMAGING WITH ELECTRONS Chair: R. Vogelgesang	PLASMONIC WAVEGUIDING Chair: V. Sandoghdar	ULTRAFAST NANOOPTICS Chair: R. Quaidant	GRAPHENE PLASMONICS Chair: Z. H. Kim			PLASMONICS FOR IMAGING Chair: D. P. Tsai	QUANTUM / ACTIVE NANOOPTICS Chair: P. Nordlander		
14:15-14:45	Batson: Plasmonic Forces Induced by Swift Electrons in Small Particles	G <sup>3</sup> Vidal: Localized spoof surface plasmons in textured particles	Aeschlimann: Ultrafast optical control at the nanoscale	Basov: Dirac plasmon in graphene: spectroscopy and imaging			Verma: High-resolution optical imaging through plasmonics and beyond plasmonics	Wrachtrup: Near field diamond defects		
14:45-15:00	Van Aken: Coupled surface plasmons and Cabinet complementarity	S. Zhang: Tailoring Dielectric Substrate for Metallic Nanowires toward High Performance Plasmonic Waveguiding	Hohenester: Ultrafast hot-electron emission from plasmonic nanoparticles	Nikitin: Plasmons get involved: resonant electromagnetic effects in graphene			Shirdel: Adiabatic nanofocusing on ultrasmooth single-crystalline gold tapers creates a nanometer-sized light source with few-cycle time	Poyli: Theoretical modeling of plasmonic sensing of Hydrogen intake in Palladium nanodisks		
15:00-15:15	Asenjo: Electron-beam interaction with plasmon evanescent fields: A new enhanced electron spectral microscopy	Klein: Interference of Airy surface plasmons	Brinks: Coherent Ultrafast Plasmonics with Nanoantennas	Thongtattanasiri: Colossal Plasmon Field Enhancement in Graphene Dimers			Schuck: Demonstrating Near-Ideal Near-Field Spectroscopic Imaging Probes	Yamaguchi: Active plasmon filter		
15:15-15:30	Lenke: Propagating and localized surface plasmons probed in a counter-propagating detection scheme	Volkov: Long-range dielectric-loaded plasmonic waveguides for integrated optics	Silies: Observing the localization of light in space and time by ultrafast second-harmonic microscopy	Beams: Graphene luminescence from tunneling electrons			Berweger: Light at the tip of a needle: Nanometer-femtosecond control of an optical wavepacket	Renger: Active plasmonics based on phase change materials		
15:30-15:45	Polman: Angle-resolved cathodoluminescence imaging Spectroscopy: deep subwavelength imaging of the modal dispersion of light	Wei: Controlling Surface Plasmons in Silver Nanowire Waveguides	Petek: Coherent imaging of surface plasmon dynamics by time-resolved photoelectron emission microscopy	Koppens: Graphene plasmonics			Mivelle: Near-Field Bowtie Nano-Aperture probe as nano-source for single molecule fluorescence excitation	Pardo: Light focusing at nanoscale level by magnetoelectric interference		
15:45-16:00					Excursion to Bilbao		Lapin: Sub 20-nanometer single molecule imaging using mass fabricated pyramidal microstructures	Tantussi: Remote excitation of single carbon nanotubes by propagating surface plasmons launched by a scanning source		
16:00-16:30	Coffee-Break		Coffee-Break		Coffee-Break		Coffee-Break			
	GRAPHENE PLASMONICS Chair: L. Martin Moreno	OPTICAL AND INFRARED ANTENNAS AND WAVEGUIDES Chair: M. Raschke	INFRARED SPECTROSCOPY Chair: A. Bragas	QUANTUM EFFECTS. Chair: L. Novotny			ELECTRICAL CURRENTS IN NANOOPTICS Chair: U. Fischer	SINGLE EMITTERS Chair: S. Maier		
16:30-17:00	G <sup>3</sup> de Abajo: Graphene plasmonics: An atomically thin look into NFO	De Wilde: NSOM applications to plasmonics at infrared wavelengths	Pucci: Surface enhanced infrared spectroscopy	Baumberg: Capturing the Quantum Regime in Tunneling Plasmonics						
17:00-17:15	Fang: A Graphene-Antenna Sandwich Photodetector	Alonso: Experimental Verification of the Shift between Near-Field and Far-Field Peak Intensities in Plasmonic Nanoantennas	Govyadinov: Quantitative determination of dielectric properties of nano-structures by s-SNOM in two and three dimensions	Bochterle: Measurement of the quantum mechanic behavior of the nanoantenna-enhanced near-field			Thunich: Sub-diffraction quantum interference control of electrical currents in nanodevices	Greffet: Nanoantennas for single photon emission		
17:15-17:30	Chen: Optical nano-imaging of gate-tuneable graphene plasmons	Sánchez Gil: Plasmonic Fano resonances become single-particle	Raschke: Ultrafast infrared near-field molecular nano-spectroscopy	Sonnefraud: Quantum statistics of surface plasmon polaritons in metallic stripe waveguides			Kern: Electrically connected resonant optical antennas	Geiselmann: 3D optical trapping and manipulation of a single NV center for LDOS mapping		
17:30-17:45	Manjavacas: Plasmon blockade in nanostructured graphene	Huang: Plasmonic Mode Converter for Optical Impedance Matching and Nanoscale Light-matter Interaction	Bensmann: Near-field infrared microscopy with a broadband light source	Wu: Quantum Description of Charge Transfer Plasmon			Badicker: Light-induced electronic transport changes through metallic nanostructures	Lindfors: Coupling plasmonic structures to self-assembled quantum dots for engineering the optical properties of single photon emitters		
17:45-18:00	Otto: Dark surface plasmon modes coming to light, the history up to 1968	Pohl: Stacked optical antenna	Keilmann: Nano-FTIR of minerals in the phonon region	Drezet: Wave-particle duality for single surface plasmons propagating on a polycrystalline gold film			Piglosiewicz: Strong field acceleration and steering of ultrafast electron pulses from a sharp metallic nanoprobe	Cueff: Sub-lifetime Electrical Modulation of Lanthanide Emission		
18:00-21:00	Poster Session 1		18.30 Poster Session 2		Conference dinner		Poster Session 3			
20:30-23:00										