



Programme

Monday 16th February

11:00	Registration, Tea and Coffee	
12:00	Lunch	
12.45	Welcome and Introductions Anatoly Zayats and Stefan Maier	
12.55	Discussion Format Presentation Monica Carreira-Mendez	
13.00	Introductory Lecture (Session Chair: Stefan Maier) Professor Mark Brongersma <i>Stanford University, USA</i>	
	Session 1: Plasmonic and new plasmonic materials (Session Chair: Duncan Graham)	
14.00	Peculiar terminals in light at the extreme Nader Engheta and A. M. Mahmoud <i>University of Pennsylvania, USA</i>	Paper 4503
14.05	Dirac dispersion in photonic hypercrystals Evgenii Narimanov <i>Purdue University, USA</i>	Paper 4608
14.10	Light emission in nonlocal plasmonic metamaterials Viktor Podolskiy*, Pavel Ginzburg, Brian Wells and Anatoly V. Zayats <i>University of Massachusetts Lowell, USA</i>	Paper 4600
14.15	Discussion	
15:30	Afternoon Tea	
16.00	Plasmonics on the slope of enlightenment: the role of transition metal nitrides Vladimir M. Shalaev* Urcan Guler, Alexander V. Kildishev and Alexandra Boltasseva <i>Purdue University, USA</i>	Paper 4506
16.05	Plasmonics in atomically thin materials F. Javier García de Abajo and A. Manjavacas <i>The Institute of Photonic Sciences, Spain</i>	Paper 4504
16.10	Ultimate limit of field confinement by surface plasmon polaritons Jacob Khurgin <i>John Hopkins University, USA</i>	Paper 4901
16.15	Discussion	
17.30	Lightning Presentation Poster Session	

18:00	Poster Session and Wine Reception <i>Sponsored by Cogent</i>
19:00	End of session

Tuesday 17th February

	Session 2: Surface plasmon enhanced spectroscopies (Session Chair: Thomas Ebbesen)	
09.00	A classical treatment of optical tunneling in plasmonic gaps: extending the quantum corrected model to practical situations Javier Aizpurua*, A. Zugarramurdi, R. Esteban, P. Zhang, P. Nordlander, F. J. García Vidal and A.G. Borissov <i>Donostia International Physics Center, Spain</i>	Paper 4500
09.05	Unfolding the contents of sub-nmplasmonic gaps using normalising plasmonresonance spectroscopy Jeremy J. Baumberg*, Bart de Nijs, Richard W. Bowman, Lars O. Herrmann, Felix Benz, Steve J. Barrow, Jan Mertens, Daniel O. Sigle, Anna Eiden, Andrea Ferrari and Oren A. Scherman <i>University of Cambridge, UK</i>	Paper 4554
09.10	Nanogaps for ultra-sensitive detection of thin films and biomolecules Sang-Hyun Oh*, Hyeong-Ryeol Park, Seon Namgung and Xiaoshu Chen <i>University of Minnesota, Twin Cities, USA</i>	Paper 4609
09.15	Discussion	
10.30	Morning Tea	
11.00	Critical importance of gap modes between metal nanoparticles and metal substrates in surface enhanced Raman scattering Masayuki Futamata*, Maho Ishikura, Chiaki Iida and Saori Handa <i>Saitama University, Japan</i>	Paper 4592
11.05	Selective TERS detection and imaging through controlled plasmonics Zachary D. Schultz*, Hao Wang, Stacey L. Carrier and Sheldon Park <i>University of Notre Dame, USA</i>	Paper 4607
11.10	Percolating plasmonic networks for light emission control Riccardo Sapienza*, Michele Gaio, Marta Castro-Lopez, Jan Renger and Niek van Hulst <i>Kings College London, UK</i>	Paper 4630
11.15	Discussion	
12:30	Lunch	
	Session 3: Quantum plasmonics, gain and spasers (Session Chair: Nader Engheta)	
13.30	Ultra-strong coupling of molecular materials: spectroscopy and dynamics Thomas Ebbesen*, J. A. Hutchison, C. Genet, E. Devaux, A. Canaguier-Durand, J. George, A. Shalabney, C. Wang, S. Wang and T. Chervy	Paper 4502

	<i>University of Strasbourg Institute for Advanced Study, France</i>	
13.35	Relaxation dynamics of a quantum emitter resonantly coupled to a coherent state of localized surface plasmon Sergey I. Bozhevolnyi* and Khachatur V. Nerkararyan <i>University of Southern Denmark</i>	Paper 4501
13.40	Ultrafast dynamics of nanoplasmonic stopped-light lasing Ortwin Hess* Sebastian Wuestner, Tim Pickering, Joachim M. Hamms, A. Freddie Page and Andreas Pusch <i>Imperial College London, UK</i>	Paper 5158
13.45	Discussion	
15.00	Afternoon tea	
	Session 4: Applications in nanophotonics (Session Chair: Ortwin Hess)	
15.30	Nonlinear quantum optics in the (ultra)strong light-matter coupling David Zueco*, Eduardo Sánchez-Burillo, Juanjo García-Ripoll and Luis Martín-Moreno <i>Universidad de Zaragoza, Spain</i>	Paper 4651
15.35	Second harmonic generation on self-assembled tilted gold nanowires Alessandro Belardini* Marco Centini, Grigore Leahu, Eugenio Fazio, Concita Sibilia, Joe Haus and Andrew Sarangan <i>Università di Roma La Sapienza, Italy</i>	Paper 4639
15.40	Electrical control of Faraday rotation at a liquid/liquid interface Michael Flatté*, Alexei Kornyshev and Monica Marinescu <i>University of Iowa, USA</i>	Paper 4866
15.45	Discussion	
17.00	Close of sessions	
19.00	Pre-Dinner Drinks – Royal Society, Carlton Terrace, London	
19.30	Conference Dinner - Royal Society, Carlton Terrace, London	

Wednesday 18th February

	Session 5: Sensing, imaging and chemistry applications of plasmonics (Session Chair: Jeremy Baumberg)	
09.00	Fluorescence axial nanotomography with plasmonics David Richards*, Nicholas I. Cade, Gilbert O. Fruhwirth, Alexey V. Krasavin and Tony Ng <i>King's College London, UK</i>	Paper 4908
09.05	Surface plasmon enhanced energy transfer between gold nanorods and fluorophores: application to endosytosis study and RNA detection Yu Chen* Yinan Zhang, Guoke Wei, Jun Yu and David J. S. Birchall <i>Strathclyde University, UK</i>	Paper 4636
09.10	Control of Förster energy transfer in vicinity of metallic surfaces and hyperbolic metamaterials Mikhail Noginov*, T. U. Tumkur, J. K. Kitur, C. E. Bonner, A. N. Poddubny and E. E. Narimanov <i>Norfolk State University, USA</i>	Paper 4633
09.15	Discussion	
10:30	Morning Tea	
11.00	A surface plasmon enabled liquid-junction photovoltaic cell Martin Moskovits*, Woo-ram Lee, Syed Mubeen and Galen D. Stucky <i>University of California, Santa Barbara, USA</i>	Paper 4505
11.05	Discussion	
11.30	Optical forces in nanoplasmonic systems: How do they work, what can they be useful for? Olivier Martin, T. V. Raziman and R. J. Wolke <i>Swiss Federal Institute of Technology Lausanne, Switzerland</i>	Paper 4659
11.35	Discussion	
12.00	Concluding Remarks Lecture (Session Chair: Anatoly Zayats) Niek van Hulst <i>The Institute of Photonic Sciences, Spain</i>	
12.45	Acknowledgements	
13.00	Close of meeting	