

EUROPT(R)ODE X: CONFERENCE SCHEDULE

SUNDAY, 28 March 2010	
16:00	Registration
18:00 – 20:00	Welcome Cocktail

FOYER BELVEDERE

MONDAY, 29 March 2010					
8:00	Registration				
9:00	Opening Address				
9:30	Plenary Lecture 1 [PL1] Optical chemical sensors and biosensors: where are we going to? Otto S. Wolfbeis <i>University of Regensburg, Regensburg (Germany)</i>				
10:30	Křížík Medal Ceremony				
11:00	Coffee Break & Technical Exhibition				
11:30	<table border="1"> <thead> <tr> <th>PRAGUE</th> <th>BELVEDERE</th> </tr> </thead> <tbody> <tr> <td> Oral Session A FLUORESCENCE METHODS 11:30 [OA1] Advanced fluorescence microscopy of peptide interaction with lipid bilayers <i>R. Macháň, J. Sýkora, M. Hof</i> 11:50 [OA2] FIDSAM – a novel fluorescence microscopy approach for quantitative and highly sensitive life-cell imaging and monitoring <i>F. Schleifenbaum, K. Elgass, M. Sackrow, K. Caesar, K. Berendzen, K. Harter, A. J. Meixner</i> 12:10 [OA3] Microflow cytometer with sheath fluid recycling <i>N. Hashemi, J. S. Erickson, J. P. Golden, P. B. Howell, Jr., F. S. Ligler</i> </td> <td> Oral Session B HIGH-THROUGHPUT SENSORS [OB1] Advancing high-throughput surface plasmon resonance sensors <i>M. Piliarik, M. Bocková, J. Homola</i> [OB2] High throughput label-free biosensing with silicon-on-insulator microring resonators <i>K. De Vos, J. Girones, T. Claes, E. Schacht, R. Baets, P. Bienstman</i> [OB3] Next generation of high throughput filtering assays (HTFA) for optical multiplexed blood group genotyping <i>G. C. Le Goff, J. Brès, L. J. Blum, C. A. Marquette</i> </td> </tr> </tbody> </table>	PRAGUE	BELVEDERE	Oral Session A FLUORESCENCE METHODS 11:30 [OA1] Advanced fluorescence microscopy of peptide interaction with lipid bilayers <i>R. Macháň, J. Sýkora, M. Hof</i> 11:50 [OA2] FIDSAM – a novel fluorescence microscopy approach for quantitative and highly sensitive life-cell imaging and monitoring <i>F. Schleifenbaum, K. Elgass, M. Sackrow, K. Caesar, K. Berendzen, K. Harter, A. J. Meixner</i> 12:10 [OA3] Microflow cytometer with sheath fluid recycling <i>N. Hashemi, J. S. Erickson, J. P. Golden, P. B. Howell, Jr., F. S. Ligler</i>	Oral Session B HIGH-THROUGHPUT SENSORS [OB1] Advancing high-throughput surface plasmon resonance sensors <i>M. Piliarik, M. Bocková, J. Homola</i> [OB2] High throughput label-free biosensing with silicon-on-insulator microring resonators <i>K. De Vos, J. Girones, T. Claes, E. Schacht, R. Baets, P. Bienstman</i> [OB3] Next generation of high throughput filtering assays (HTFA) for optical multiplexed blood group genotyping <i>G. C. Le Goff, J. Brès, L. J. Blum, C. A. Marquette</i>
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12:30 – 14:00	Lunch				

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RESTAURANT LORETA

14:00	Plenary Lecture 2 [PL2] Small volume optical detection: extraction of information from microfluidic environments Andrew deMello <i>Imperial College, London (United Kingdom)</i>	PRAGUE
15:00	Invited Lecture 1 [[IL1] Bioluminescence-based biosensors Aldo Roda , <i>University of Bologna, Bologna (Italy)</i>	PRAGUE
	Invited Lecture 2 [[IL2] Photonic crystal fibers for label-free biosensing Ole Bang , <i>Technical University of Denmark, Lyngby (Denmark)</i>	BELVEDERE
15:30	Coffee Break & Technical Exhibition	FOYER BELVEDERE FOYER PRAGUE
16:00	Oral Session A FLUORESCENCE SENSORS	PRAGUE
16:00	[OA4] Fluorescence lifetime of quantum dots explored as a tool for biosensing <i>G. Giraud et al.</i>	
16:20	[OA5] Integrating nanomaterials and optical detection: multiplexed nucleic acid biosensors based on quantum dots <i>U. J. Krull and W. R. Algar</i>	
16:40	[OA6] Protein biomarker chip based on (electro)chemical fabrication of metal clusters and surface enhanced fluorescence detection <i>C. Preininger, U. Sauer, M. Chouiki, R. Schöftner, W. Hansal, S. Hansal</i>	
17:00	[OA7] Stand-alone system for sepsis analysis <i>F. Baldini, L. Bolzoni, A. Giannetti, G. Porro, F. Senesi, C. Trono</i>	
	Oral Session B INTERFEROMETRIC SENSORS	BELVEDERE
	[OB4] Perspectives of RfS <i>G. Gauglitz</i>	
	[OB5] Optofluidic Mach-Zehnder interferometer for sensing at picoliter scale <i>G. Testa, Y. Huang, L. Zeni, P. M. Sarro, R. Bernini</i>	
	[OB6] Monolithically integrated broad-band Mach-Zehnder interferometer arrays for real-time label-free monitoring of biomolecular interactions <i>M. Kitsara, K. Misiakos, I. Raptis, R. Stoffer, P. S. Petrou, S. E. Kakabakos, E. Makarona</i>	
	[OB7] Label free modular point of care diagnostics <i>D. Furin, M. Sämann, J. Thielmann, A. Pfäfflin, G. Proll, M. Schubert, H. Richter, C. Harendt, W. Osten, E. Schleicher, G. Gauglitz</i>	
17:20 – 19:00	Poster Session & Technical Exhibition	FOYER BELVEDERE
19:30 – 22:00	Conference Reception	PRAGUE MAYOR'S RESIDENCE

TUESDAY, 30 March 2010

		PRAGUE
9:00	Plenary Lecture 3 [PL3] Smart and spectrally barcoded particles of porous silicon for chemical sensing and biosensing Michael J. Sailor , <i>University of California, San Diego (USA)</i>	
10:00	Invited Lecture 3 [IL3] Biosensing with silicon: From nanoporous membranes to photonic crystal microcavities Philippe M. Fauchet , <i>University of Rochester, Rochester (USA)</i>	PRAGUE
	Invited Lecture 4 [IL4] Overview of optical ring resonators in biological and chemical sensing Xudong Fan , <i>University of Michigan, Ann Arbor (USA)</i>	BELVEDERE
10:30	Coffee Break & Technical Exhibition	FOYER BELVEDERE FOYER PRAGUE
11:00	Invited Lecture 5 [IL5] Silicon photonic wire biosensors and biosensor arrays Siegfried Janz , <i>National Research Council, Ottawa (Canada)</i>	PRAGUE
	Invited Lecture 6 [IL6] Nanostructured detection platforms: The new generation of label-free biosensors Andrea Valsesia , <i>Plasmore S.r.l., Ranco (Italy)</i>	BELVEDERE
11:30	Oral Session A SENSOR ARRAYS	PRAGUE
11:30	[OA8] Integrated optical sensor array based on ring-shaped organic photodiodes and organic LEDs <i>T. Abel, B. Lamprecht, E. Kraker, A. Haase, C. Konrad, M. Tscherner, S. Köstler, T. Mayr</i>	
11:50	[P50] Electrochemiluminescence bead-based microarray for multiplexed sandwich immunoassays <i>F. Deiss, C. N. LaFratta, M. Symer, T. M. Blicharz, N. Sojic, D. R. Walt</i>	
12:10	[OA10] Label-free, multiplexed biomolecular quantitation using arrays of silicon photonic microring resonators <i>A. L. Washburn, A.J. Qavi, M.S. Luchansky, R.C. Bailey</i>	
	Oral Session B IMMUNOSENSORS	BELVEDERE
	[OB8] Novel human IgG immunoassay using surface plasmon-coupled emission (SPCE)-based paraboloid array biochips without a spacer layer <i>J. S. Yuk, C. McDonagh, B. D. MacCraith</i>	
	[OB9] SAF immunodiagnostic system: subpicomolar sensitivity in minutes at low costs <i>T. Ruckstuhl, C. M. Winterflood, S. Seeger</i>	
	[OB10] Comparison of two optical immunosensors for the detection of quorum sensing molecules <i>K. Wöllner, M. Starke, X. Chen, E. Kremmer, P. M. Krämer</i>	
12:30 – 14:00	Lunch	RESTAURANT LORETA

14:00	Plenary Lecture 4 [PL4] Designing plasmonic crystals for ultra-sensitive molecular sensing Teri W. Odom , <i>Northwestern University, Evanston (USA)</i>	PRAGUE
15:00	Invited Lecture 7 [IL7] Nanoplasmonics with biomolecules Jochen Feldmann , <i>Ludwig-Maximilians-University, Munich (Germany)</i>	PRAGUE
	Invited Lecture 8 [IL8] Nanostructured cobalt oxide films for optical gas sensing Naoto Koshizaki , <i>National Institute of Advanced Industrial Science and Technology, Tsukuba (Japan)</i>	BELVEDERE
15:30	Coffee Break & Technical Exhibition	FOYER BELVEDERE FOYER PRAGUE
16:00	Oral Session A NANOSTRUCTURES FOR SENSING	PRAGUE
16:00	[OA11] Optimal sensing region (nano-) plasmonic sensing <i>M. A. Otte, B. Sepúlveda, W. Ni, J. Pérez Juste, L. M. Liz-Marzán, L. M. Lechuga</i>	
16:20	[OA12] Surface plasmon resonance imaging biosensor system using nano-structured surfaces <i>A. Duval, M. Nakkach, G. Barbillon, J. Moreau, M. Canva, A. Dhawan, T. Vo-Dinh</i>	
16:40	[OA13] Detection of forensic analytes in latent fingerprints using antibody-magnetic particle conjugates <i>P. Hazarika, D. A. Russell</i>	
17:00	[OA14] Fiber optic-particle plasmon resonance biosensors <i>L.-K. Chau, C.-Y. Chiang, S.-H. Lu, W.-Y. Li, S.-C. Liu, N.-S. Lai, M. S.-R. Lyu</i>	
16:00	Oral Session B GAS SENSORS	BELVEDERE
	[OB11] Analysis of hydrocarbon gas mixtures using hollow core photonic band gap fibres and NIR spectroscopy <i>H. Lehmann, H. Bartelt, R. Willsch, R. Amezcua-Correa, J. C. Knight</i>	
	[OB12] Optical dissolved carbon dioxide sensor for use in environmental monitoring applications <i>D. Wencel, J. P. Moore, N. Stevenson, C. McDonagh</i>	
	[OB13] Merging sensor layers with reel to reel technology <i>G. J. Mohr, S. Trupp, M. Alberti, E. Yacoub-George, K. Bock</i>	
	[OB14] Protective clothing based on integrated color changing sensors <i>A. Lobnik, A. Ribič, A. Gutmaher, M. Turel, Š. K. Urek, N. Frančič</i>	
17:20 – 19:00	Poster Session & Technical Exhibition	FOYER BELVEDERE
19:30 – 24:00	Conference Banquet	FRENCH RESTAURANT MUNICIPAL HOUSE

WEDNESDAY, 31 March 2010		
9:00	Plenary Lecture 5 [PL5] Molecularly imprinted polymers for fluorescence-based optical sensors María C. Moreno Bondi , <i>University Complutense, Madrid (Spain)</i>	PRAGUE
10:00	Invited Lecture 9 [IL9] Ultra low fouling and functionalizable zwitterionic materials for sensing and detection in complex media Shaoyi Jiang , <i>University of Washington, Seattle (USA)</i>	PRAGUE
	Invited Lecture 10 [IL10] Next-generation mid-infrared gas sensors Boris Mizaikoff , <i>University of Ulm, Ulm (Germany)</i>	BELVEDERE
10:30	Coffee Break & Technical Exhibition	FOYER BELVEDERE FOYER PRAGUE
11:00	Oral Session A BIORECEPTORS AND SURFACE CHEMISTRIES	PRAGUE
11:00	[OA15] Nanoplasmonics and orthogonal surface chemistry: a powerful combination to detect low abundant proteins <i>L. Feuz, P. Jönsson, M. P. Jonsson, F. Höök</i>	
11:20	[OA16] Single nanosensors based on molecularly imprinted polymer nanocomposites as synthetic receptors, and on plasmonic enhancement <i>K. Haupt, Y. de Wilde, M. Bompat</i>	
11:40	[OA17] Blood plasma fouling on "anti-fouling" biosensor surfaces <i>E. Brynda, C. Rodriguez-Emmenegger, T. Riedel, A. Bologna-Alles</i>	
	Oral Session B OXYGEN SENSORS	BELVEDERE
	[OB15] Probing oxygen gradients in biological samples with phosphorescent oxygen nanosensors <i>D. B. Papkovsky</i>	
	[OB16] New integrated oxygen sensors based on GaN emitters covalently functionalized with luminescent Ru(II) complexes <i>J. López-Gejo, A. Arranz, A. Navarro, C. Palacio, E. Muñoz, G. Orellana</i>	
	[OB17] NIR-emitting phosphorescent metalloporphyrins for optical oxygen sensing and imaging <i>S. M. Borisov, G. Zenkl, F. Niedermair, K. Koren, I. Klimant</i>	
12:15	Poster Award	PRAGUE
12:30	Closing Address	PRAGUE
13:00 – 14:00	Farewell Cocktail	FOYER BELVEDERE FOYER PRAGUE

