

# EUROPT(R)ODE VII SCIENTIFIC PROGRAMME

<b>TUESDAY April 6, 2004</b>			
Room A – “Ramón y Cajal” Amphitheater		Room B – “Prof. Botella” Auditorium	
08:30		<b>Roche Award &amp; lecture</b> Chair: O.S. Wolfbeis	
<b>Plenary Session</b> Chair: L.J. Blum			
09:30	PL4	<b>Genetic Engineering in Biosensing and Micro/Nano Analytical Methods</b> <i>S. Daunert</i> University of Kentucky, USA	
10:30	<i>Coffee break</i>		
<b>Session 5</b> Chairs: P.V. Lambeck / B. Mizaikoff		<b>Session 6</b> Chairs: P. Caglar / Z. Zhujun	
11:00	IL2.1	<b>Applying Fluorescent Nanosensors to Measure the Intracellular Environment</b> <i>J.W. Aylott</i> University of Hull, UK	11:00
11:30	OA2.1	<b>Nanosensors for Monitoring Molecular Signaling Pathways in a Single Living Cell</b> <i>T. Vo-Dinh, P.M. Kasili, G.D. Griffin, M. Culha, D.L. Stokes, J.M. Song</i> Oak Ridge National Lab, USA	11:30
11:50	OA2.2	<b>Determination of the Concentration of Living Immobilized Cells by Fluorescence Spectroscopy</b> <i>O. Podrazky, G. Kuncova</i> Academy of Sciences of the Czech Republic, Czech Republic	11:50
12:10	OA2.3	<b>Array Biosensor for Food Safety</b> <i>F. S. Ligler,<sup>a</sup> L.C. Shriver-Lake,<sup>a</sup> K.E. Sapsford,<sup>b</sup> N. Kulagina,<sup>a</sup> M. Ngundi,<sup>a</sup> J.P. Golden,<sup>a</sup> C.A. Rowe Tait<sup>a</sup></i> <sup>a</sup> Naval Research Lab, Washington DC, USA; <sup>b</sup> George Mason University, USA	12:10
12:30	OA2.4	<b>Multi-Analyte Optical Sensor Chip</b> <i>O. McGaughey, A.K. McEvoy, B.D. MacCraith, J.M. Sabattie, J. Charmet</i> Dublin City University, Ireland	12:30
12:50	OA2.5	<b>Single Molecule Surface Reactions by Confocal TIRF Microscopy</b> <i>T. Ruckstuhl, A. Krieg, S. Seeger</i> University of Zurich, Switzerland	12:50
11:00	IL2.2	<b>Using Reversible Chemical Reactions to Optically Detect Analyte Molecules</b> <i>G.J. Mohr</i> University of Jena, Germany	11:00
11:30	OB2.1	<b>Chemiluminescence Microfluidic Chip Fabricated in PMMA for Determination of Benzoyl Peroxide in Flour</b> <i>W. Liu, Z. Zhang, L. Yang</i> Shanxi Normal University, China	11:30
11:50	OB2.2	<b>Electrochemiluminescence Imaging Through an Ordered Array of Submicrometer-Sized Individually-Readable Electroptodes</b> <i>Chovin,<sup>a</sup> P. Garrigue,<sup>a</sup> P. Vinatier,<sup>b</sup> N. Sojic<sup>a</sup></i> <sup>a</sup> Université Bordeaux; <sup>b</sup> Inst. Chimie de la Matière Condensée, Bordeaux, France	11:50
12:10	OB2.3	<b>Identification of Food Flavor Using the Sensitized Cataluminescence-Based Gas-Sensors</b> <i>M. Nakagawa,<sup>a</sup> N. Matsuo,<sup>a</sup> T. Okabayashi,<sup>b</sup> I. Yamamoto,<sup>b</sup> K. Utsunomiya,<sup>b</sup> N. Yamashita<sup>c</sup> and S. Terakado<sup>d</sup></i> <sup>a,b,c</sup> Okayama University, Japan; <sup>d</sup> Sibata Scientific Technology LTD, Japan	12:10
12:30	OB2.4	<b>Enantiomeric Separation by Polymeric Chiral-Calix Layers with Optical Sensing Devices</b> <i>S. Busche, M. Kasper, A. Ruderisch, V. Schurig, G. Gauglitz</i> Eberhard-Karls-Universität Tübingen, Germany	12:30
12:50	OB2.5	<b>Frequency Domain Measurement of Room Temperature Phosphorescence Lifetimes in the Presence of Background Signals</b> <i>M. Valledor, J.C. Campo, J.C. Viera, I. Sánchez, J.M. Costa, A. Sanz Medel</i> University of Oviedo, Spain	12:50

13:30	Lunch				
<b>Plenary Session</b> Chair: R. Narayanaswamy					
14:30	PL5	<b>Past, Present and Future of Ionophore-Based Optosensing</b> <i>K. Suzuki</i> University of Keio, Japan			
<b>Session 7</b> Chair: F. Baldini				<b>Session 8</b> Chair: J. Homola	
15:30	IL2.3	<b>Planar Waveguide Technology for DNA and Protein Microarrays</b> <i>M. Ehrat</i> Zeptosens AG, Switzerland		15:30	OB2.6 <b>Optical Microsystems Platforms CMOS Compatible Based on Interferometric Biosensor Nanodevices</b> <i>B. Sepúlveda,<sup>a</sup> J. Sánchez del Rio,<sup>a</sup> F.J. Blanco,<sup>b</sup> A. Calle,<sup>a</sup> C. Domínguez,<sup>a</sup> A. Montoya,<sup>c</sup> L.M. Lechuga<sup>a</sup></i> <sup>a</sup> Microelectronics National Center, Spain; <sup>b</sup> IKERLAN S. Coop, Spain; <sup>c</sup> Universidad Politécnica de Valencia, Spain
16:00	OA2.6	<b>INDUSTRIAL PRESENTATIONS SESSION: Bridging the gap between research and marketing of optical chemical sensors and biosensors</b> <ul style="list-style-type: none"> <li>• Osmetech (USA)</li> <li>• Ocean Optics (USA)</li> <li>• Interlab IEC (Spain)</li> <li>• Biacore (Sweden)</li> </ul>		15:50	OB2.7 <b>Highly Sensitive Optochemical Sensors Based on Reactive Dyes Incorporated into Molecularly Imprinted Polymers</b> <i>K. Haupt,<sup>a</sup> G. Mohr<sup>b</sup></i> <sup>a</sup> Compiègne University of Technology, France; University of Jena, Germany
16:15	OA2.7			16:10	OB2.8 <b>Polyelectrolyte Multilayer Patterning for SPR Liquid Sensing</b> <i>M. Palumbo, M.C. Petty</i> Centre for Molecular and Nanoscale Electronics of Durham, U.K.
16:30	OA2.8			16:30	OB2.9 <b>Holographic Design of Integrated Surface Plasmon Resonance Sensor Chip</b> <i>H.C. Pedersen,<sup>a</sup> W. Zong,<sup>b</sup> M.H. Sorensen,<sup>b</sup> C. Thirstrup<sup>b</sup></i> <sup>a</sup> Risø National Laboratory, Denmark; <sup>b</sup> Vir Biosensor, Denmark
16:45	OA2.9				
17:00	<b>POSTER SESSION "E" &amp; Technical Exhibition + Refreshments</b>				
19:00	End of session				
21:00	<b>Conference Banquet</b>				