Schedule for the 9th workshop on (Bio)sensors and Bioanalytical microtechniques in environmental and clinical analysis

Sunday June 14th 2009

Time	Room	Speaker	Title	Affiliation
15 :00 – 19 :30		Registration		
15 :45 – 16 :00		Welcome		
Plenary lecture 1				
16 :00 – 17 :00		C. Niemeyer		Dortmund, Germany
Surface plasmon resonance and resonators 1 (Session chair :)				
17 :00 – 17 :20		J. Cheng	Protein biosensing with tethered membrane arrays and SPR imaging	UC Riverside, USA
17 :20 – 17 :40		S. Evoy	Silicon nanowire resonators for the specific detection of proteins	NINT, Canada
17 :40 – 18 :00		R. Mutharasan	Piezoelectric-excited cantilever biosensor with attogram/Hz sensitivity	Drexel U., USA
18 :00 – 19 :30		Welcome reception		

Monday June 15th, 2009

Time	Room	Speaker	Title	Affiliation
8 :00 – 8 :30		Welcome		
Microarrays and biochips (Session chair :)				
8 :30 – 8 :50		P. Domnanich	Microarray chip technology for multiplexed detection of diagnostic markers	Austrian Research Centers, Austria
8 :50 – 9 :10		K. A. Heyries	Megapixel polymerase chain reaction (PCR) with application to noninvasive prenatal diagnostics	Univ. British Columbia, Canada
9 :10 – 9 :30		C. A. Marquette	Disposable screen-printed chemiluminscent biochips for the simultaneous determination of four point-of-care relevant proteins	Université Lyon, France
9 :30 – 9 :50		J. Rishpon	Electrochemical monitoring of biological reactions using a novel nano-bio-chip array	Tel Aviv University, Israel
9 :50 – 10 :10		S. R. Nugen	Polymer biochips for nucleic acid electrochemical detection using liposomes	Cornell University, USA
10 :10 – 10 :30		M. M. Ilie	Nanostructuring the working electrode surface for micro-array bio-chips	Univ. Politehnica Bucharest, Romania
10 :30 – 11 :10		**Coffee break, exhibition, and poster session 1**		
Surface plasmon resonance and resonators 2 (Session chair :)				
11 :10 – 11 :30		K.S. Booksh	Surface plasmon resonance spectroscopy for determination of small molecules	Univ. Delaware, USA
11 :30 – 11 :50		V. Joshi	Surface plasmon resonance as a label free tool to monitor biomolecular interactions and its application in diagnosis of Dengue	JNV Univ., India
11 :50 – 12 :10		F. Pandozzi	Non-invasive quantification of absorbing fluids behind scattering layers using evanescent field effects	McGill, Canada
12 :10 – 12 :30		N. N. Fitzpatrick	Gold-tantalum nanocomposites for ultra-thin static microcantilevers	NINT, Canada
12 :30 – 13 :30		**Lunch**		
Plenary lecture 2				
13 :30 – 14 :30		S. Weber		Univ. Pittsburgh, USA
14 :30 – 15 :30		**Coffee break, exhibition, and poster session 1**		
Electrochemical (Session chair :)				
15 :30 – 15 :50		S. Andreescu	Implantable enzyme microelectrodes for real-time monitoring of clinically important analytes in an oxygen-restrictive environment	Clarkson, USA
15 :50 – 16 :10		F. Cicoira	Organic electrochemical transistors for biosensing applications	Cornell, USA
16 :10 – 16 :30		L. Soleymani	Direct electrochemical detection of prostate cancer-related gene fusions using multiplexed nanostructured microelectrodes	Univ. Toronto, Canada
16 :30 – 16 :50		B.P. Corgier	Microfabricated electrochemical probe for the detection of signalling proteins released by single cells	McGill Univ., Canada
16 :50 – 17 :10		R. J. Weld	E. coli mutants with modified DET activity in microbial fuel cells	Lincoln Ventures, New Zealand
17 :30 – 18 :30		**Closing poster visit, cash bar**		

Tuesday June 16th, 2009

Time	Room	Speaker	Title	Affiliation
8 :00 – 8 :30		Welcome		
Environmental (Session chair :)				
8 :30 – 8 :50		B. van Dorst	Development of a biosensor for the detection of chloroamphenicol acetyle transferase (CAT) in a stress gene assay	Univ. Antwerp, Belgium
8 :50 – 9 :10		D. Blake	Near real-time measurement of uranium levels using field-deployed immunosensors	Tulane Univ., USA
9 :10 – 9 :30		N. Pasco	Appraising bacterial strains for rapid BOD sensing- what indicates their fit-for-purpose	Env. Sci. and Res., New Zealand
9 :30 – 9 :50		A. Meimaridous	Towards a luminex-based immunoassay screening for multiple polycyclic aromatic hydrocarbons (PAHs) in foods	RIKILT, Netherlands
9 :50 – 10 :10		C. R. Suri	Highly sensitive immunosensing techniques for the analysis of pesticides in the environment	CSIR, India
10 :10 – 10 :30		S. Bhand	High throughput biosensor for simultaneous analysis of pesticide residues and heavy metals in the environment	Goa, India
10 :30 – 11 :00		**Coffee break and poster session 2**		
Microextractions and microarrays (Session chair :)				
11 :00 – 11 :20		K. Wojciechowski	Microfluidic permeation liquid membrane system for Copper(II) speciation in fungicides	Warsaw Univ. of Technology, Poland
11 :20 – 11 :40		K. L. O'Neal	Receptor-doped teflon AF2400 membranes for fluorous solid phase microextraction (F-SPME)	Univ. Pittsburgh, USA
11 :40 – 12 :00		V. G. Pomelova	Microplate microarray immunoassay for serodiagnosis of infections transmitted by ixodid ticks	State Research Center of Bioengineering, Moscow, Russia
12 :00 – 12 :20		W. Luo	Optimisation of ELISA microarray for detection of tumor biomarkers using Taguchi method	McGill, Canada
12 :30 – 13 :30		**Lunch**		
13 :30 – 14 :00		**Poster session 2**		
Sensors and materials (Session chair :)				
14 :00 – 14 :20		V. Stambouli	Hairpin DNA sensors based on bilayered conductive surfaces	UPMC Paris, France
14 :20 – 14 :40		I. I. Sunni	Degenerate Si as an electrode material for electrochemical biosensors	Clarkson, USA
14 :40 – 15 :00		D. Mercier	Selection of amino acid sequences on metallic oxide surfaces	Univ. Louvain, Belgium
15 :00 – 15 :20		A. Pasquarelli	Diamond microelectrodes arrays for the detection of secretory cell activity	University of Ulm, Germany
15 :20 – 15 :40		S. Boujday	Elaboration of 3D immunosensors by controlled immobilization of gold nanoparticles on dithiol self assembled monolayers	Univ. Paris, France
15 :40 – 16 :00		M. Lessard Viger	Enhanced fluorimetric detection of nucleic acids via plasmonic coupling and resonant energy transfer in hybrid metal-silica nanoparticles	Univ. Laval, Canada
16 :00 – 16 :20		**Coffee break and poster session 2**		
Pathogen detection (Session chair :)				
16 :20 – 16 :40		S. Mukherji	Evanescent wave absorbance based U-bent fiber-optic sensor for pathogen detection	ITT Bombay, India
16 :40 – 17 :00		K. A. Edwards	Engineering liposomes for CD4+ T-cell detection	Cornell, USA
17 :00 – 17 :20		A. Singh	Immobilization of bacteriophages on gold surfaces for pathogen biosensing applications	NINT, Canada
17 :20 – 18 :30		**Closing poster visit, cash bar**		
19 :00 -		Dinner at restaurant … - tickets required to attend (50$)		

Wednesday June 17th, 2009

Time	Room	Speaker	Title	Affiliation
8 :00 – 8 :30		Welcome		
Immobilization (Session chair :)				
8 :30 – 8 :50		J.D. Brennan	Development of a bioactive paper sensor for organophosphates using ink-jet printing of sol-gel entrapped enzymes	McMaster Univ., Canada
8 :50 – 9 :10		L. Gorton	Cellobiose dehydrogenase: an interesting enzyme for electrochemical and biosensor/biofuel cell studies	Lund Univ., Sweden
9 :10 – 9 :30		S. Singh	Steptavidin attachment on modified nanostructured silicon surfaces	National Physical Laboratory, India
9 :30 – 9 :50		K. Waldron	Immobilized enzyme microreactor development using microencapsulated laccase coupled to capillary electrophoresis to measure oxidation reactions	Univ. Montreal, Canada
9 :50 – 10 :10		D. Rochefort	Confocal microscopy study of polymer microcapsules for enzymatic, paper-based biosensors	Univ. Montreal, Canada
10 :10 – 10 :30		K.H. Feller	Novel assays for glucose oxidase and laccase by micro-structured devices	Univ. Jena, Germany
10 :30 – 11 :00		**Coffee break and poster session 2**		
Advances in biosensing (Session chair :)				
11 :00 – 11 :20		M. B. Gu	Aptasensors for the detection of Adipokines, Residual Pharmaceutics, and EDCs	Korea Univ, South Korea
11 :20 – 11 :40		K. Haupt	Molecularly imprinted polymer nanocomposites - synthetic receptors for biosensors and biochips	Compiègne Univ. Tech., France
11 :40 – 12 :00		A. Vallée-Bélisle	Thermodynamic basis underlying the design of efficient conformational change-biosensors	Univ. of California, Santa Barbara, USA
12 :00 – 13 :10		**Lunch**		
Surface plasmon resonance and resonators 3 (Session chair :)				
13 :10 – 13 :30		M. Fujimaki	A thermally stable high sensitivity sensor for molecular adsorption detection	AIST, Japan
13 :30 – 13 :50		J.F. Masson	Limiting the nonspecific adsorption of complex biological media for protein biosensing	Univ. Montreal, Canada
13 :50 – 14 :10		S. R. Raz	Imaging SPR based biosensor for multianalyte detection of antibiotic residues in milk	RIKILT, Wageningen, Netherlands
14 :10 – 14 :30		J. R. Dion	Point-of-care diagnostics using ultrasonic detection of antibody-linked hydrogels	McGill, Canada
14 :30 – 14 :50		P. Kao	Study of cellular dynamics via viscoelastic responses on ultrahigh sensitivity microresonator arrays	Penn State Univ, USA
14 :50 – 15 :10		C. Guthy	High-Yield Fabrication and Resonant Characterization of Sub-50 nm Nanomechanical Resonators	NINT, Canada
End of workshop - Departure				