Advanced Study Institute on Optical Waveguide Sensing and Imaging October 12-21, 2006, Holiday Inn Plaza la Chaudière, Gatineau







DETAILED PROGRAM

Wednesday, October 11 Arrival of participants

Thursday, October 12

07:30am - 08:30am	Breakfast	
08:30am - 08:40am	Official opening – Bock, Gannot, Tanev	
08:40am - 09:30am	Introduction of participants	
09:30am - 10:30am	Reliability of optical components	F. Berghmans
10:30am - 11:00am	Coffee break	-
11:00am - 12:00pm	Fiber-optic biosensors and nanobiosensors - fundamentals	I. Ilev
12:00pm - 01:00pm	Lunch	
02:45pm - 03:00pm	Coffee break	
03:00pm - 04:00pm	Novel sensing mechanisms using tilted fiber Bragg gratings-I	J. Albert
04:00pm - 05:00pm	Silicon-based microphotonics for biosensing applications	S. Janz

Friday, October 13

07:30am - 08:30am	Breakfast	
08:30am - 09:30am	Ionising Radiation Effects on Optical Components	F. Berghmans
09:30am - 10:30am	Fiber-optic biosensors and nanobiosensors - applications	I. Ilev
10:30am - 11:00am	Coffee break	
11:00am - 12:00pm	Photonics simulation tools and biomedical imaging	S. Tanev
12:00pm - 01:00pm	Lunch	
02:45pm - 03:00pm	Coffee break	
03:00pm - 04:00pm	Novel sensing mechanisms using tilted fiber Bragg gratings-II	J. Albert
04:00pm - 05:00pm	Enhanced fluorescence-based sensors-I	B. MacCraith

Saturday, October 14

08:00am - 09:00am	Breakfast	
09:00am - 10:00am	Enhanced fluorescence-based sensors-II	B. MacCraith
10:00am - 11:00am	Fiber sensor for health monitoring of civil structures-I	X. Bao
11:00am - 11:15am	Coffee break	
11:15am - 12:15pm	Applications of traditional and long period fiber	T. Eftimov
-	Bragg gratings	
12:15pm - 01:30pm	Lunch	
02:45pm - 03:00pm	Coffee break	
03:00pm - 05:00pm	Interest groups meetings	

Sunday, October 15

08:00am - 09:00am	Breakfast	
09:00am - 12:00am	Excursion	
12:00am - 01:00pm	Lunch	
02:45pm - 03:00pm	Coffee break	
03:00pm - 04:00pm	Waveguide platforms for detection of DNA hybridization	U. Krull
04:00pm - 05:00pm	Fiber sensor for health monitoring of civil structures-II	X. Bao
05:00pm - 06:00pm	Biosensing configurations using guided wave	
	resonant structures	I. Abdulhalim

Monday, October 16

ADVANCED TECHNOLOGY COMMERCIALIZATION WORKSHOP

07:45am-08:25am Breakfast

Morning session: Academic Research Commercialization Best Practices

08:25am-08:35am	Welcoming remarks
08:35am-09:00am	Bill Mantel, Director, Commercialization Branch, Ontario Ministry of Research
	& Innovation
	Academic Research Commercialization within a Global Economy Context
09:00am-09:25am	Karl-Friedrich Klein, University of Applied Sciences, Friedberg, Germany
	Photonics Commercialization Experiences in Germany
09:25am-09:50am	Yuji Matsuura, Tohoku University, Japan
	Biomedical Photonics Commercialization in Japan
09:50am-10:15am	Frank Shepherd, Group Leader, Canadian Photonics Fabrication Centre
	Institute for Microstructural Sciences, NRC Canada
	The Commercialization Strategy of CPFC
10:15am-10:30am	Coffee break
10:30am-10:55am	Rick Claus, Virginia Tech and NanoSonic, Inc, USA
	Commercialization of Nanotechnologies
10:55am-11:20pm	Tony Bailetti, Carleton University & Talent First Initiative
-	<i>Competing in open environments – the case of open source</i>
11:20am-11:45pm	Joe Irvine, TTBE, University of Ottawa
-	The Ottawa Technology Transfer Network
11:45am-11:55pm	Rana Pudifin, Global Partnership Program,
-	Foreign Affairs and International Trade Canada
	The Global Partnership Program – an International Technology
	Commercialization Vehicle
11:55am-12:20pm	Julian Jones, Heriot-Watt University, Edinburgh, UK
_	Knowledge Transfer and Universities: a UK Perspective
12:20pm-12:30pm	Q&As
12:30pm-02:00pm	Lunch and networking
Afternoon session:	International Advanced Technology Showcase
	Optical Sensing and Imaging
02:00pm-02:25pm	Sean Caulfeild, Perley-Robertson, Hill & McDougall LLP
	Technological entrepreneurship options for Universities
02:25pm-02:50pm	Brian Wilson, Ontario Cancer Institute and University of Toronto
	Laboratory for Applied Biophotonics: A Model for Interactions between
	Research Institutions and Industry
02:50pm-03:15pm	Coffee break
Company presentations	
03:15pm-03:45pm	FISO Technologies Inc.
03:45pm-04:10pm	ART Advanced Research Technologies Inc.
04:10pm-04:35pm	LxSix Photonics Inc.
04:35pm-05:00pm	Peleton Inc.

05:30pm-08:30pm Reception, networking and closing

Tuesday, October 17

07:30am - 08:30am	Breakfast	
08:30am - 09:30am	Self-assembled nanostructured fibers and sensors	Rick Claus
09:30am - 10:30am	UV, x-ray laser and Raman waveguides	
	for medical treatments-I	Y. Matsuura
10:30am - 11:00am	Coffee break	
11:00am - 12:00pm	Microfluidics for waveguide-based DNA biosensors	U. Krull
12:00pm - 01:00pm	Lunch	
02:00pm - 02:45pm	Optical Bio-imaging from single molecule to the patient	B. Wilson
02:45pm - 03:00pm	Coffee break	
03:00pm - 04:00pm	New analytical applications of UV-waveguides	KF. Klein
04:00pm - 05:00pm	UV, x-ray laser and Raman waveguides	
	for medical treatments-II	Y. Matsuura
06:00pm - 07:00pm	Poster presentations	

Wednesday, October 18 07:30am - 08:30am Breakfast

07:30am - 08:30am	Breakfast	
08:30am - 09:30am	Polarized light imaging of skin surface effects J.	C. Ramella-Roman
09:30am - 10:30am	Optical fiber interferometric sensing systems-II	Julian Jones
10:30am - 11:00am	Coffee break	
11:00am - 12:00pm	Optical fiber interferometric sensing systems-I	Julian Jones
12:00pm - 01:00pm	Lunch	
02:45pm - 03:00pm	Coffee break	
03:00pm - 04:00pm	Gas-sensing with hollow-core-waveguides	KF. Klein
04:00pm - 05:00pm	Modeling of polarized light transport into scattering me	dia:
	Polarized light Monte Carlo J.	C. Ramella-Roman
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Thursday, October 19

Thursday, October 19		
07:30am - 08:30am	Breakfast	
08:30am - 09:30am	Sensors for the smart medical home	Israel Gannot
09:30am - 10:30am	Infrared fiber optic sensors	J. Harrington
10:30am - 11:00am	Coffee break	
11:00am - 12:00pm	FTIR ATR infrared fiber sensors for environmental and	
	bio-chemical reactor monitoring-I	L. Butvina
12:00pm - 01:00pm	Lunch	
02:45pm - 03:00pm	Coffee break	
03:00pm - 04:00pm	Optical fiber nanoparticle bioimaging	Israel Gannot
04:00pm - 05:00pm	Photonic liquid crystal fibers - new sensing opportunities-I	T. Wolinski

Friday, October 20

07:30am - 08:30am	Breakfast	
08:30am - 09:30am	Laser power delivery using infrared fiber optics	J. Harrington
09:30am - 10:30am	Scientific misconduct	J. Harrington
10:30am - 11:00am	Coffee break	
11:00am - 12:00pm	Optical fiber sensing technologies for explosive detection	W. Bock
12:00pm - 01:00pm	Lunch	
02:45pm - 03:00pm	Coffee break	
03:00pm - 04:00pm	Photonic liquid crystal fibers - new sensing opportunities-II	T. Wolinski
04:00pm - 05:00pm	FTIR ATR infrared fiber sensors for environmental and	
	bio-chemical reactor monitoring-II	L. Butvina

Saturday, October 21 08:30am - 10:30am

Breakfast and closing