



BioLIGHT 2003



Canada's First Biophotonics Primer & Workshop Four Points Sheraton Hotel, Gatineau, Quebec November 13-16, 2003

Organized by: Vitesse Re-Skilling® Canada Inc. & the Canadian Institute for Photonics Innovation

Objective: The objective of *the first and unique biophotonics forum in Canada - BioLIGHT 2003* – is to create a cross-disciplinary dialogue and knowledge exchange between physicists, photonics engineering professionals, biologists, medical scientists and medical practitioners. BioLIGHT 2003 will provide an opportunity to learn and share expert knowledge on the emerging biophotonics field.

Key Topics: The Primer and Workshop will focus on the sciences and technologies for biophotonics as it applies to:

Medicine and Health, Biosciences, Environment, Security and Defence

- Broad introduction to the field of biophotonics
- Discussion of potential interplay among various disciplines as it relates to biophotonics
- Roundtable discussions for a deeper familiarization with the field
- Brainstorming sessions on new research directions, new technologies and business opportunities

Key Speakers: The following are outstanding and internationally recognized Canadian and US experts in medicine, biology, physics, photonics and biomedical engineering who will deliver lectures during the workshop:

Dr. Brian Wilson, Professor
Ontario Cancer Institute, Toronto, Canada

Dr. A.E. (Ted) Dixon, CEO
Biomedical Photometrics Inc., Waterloo, ON, Canada

Dr. Ulrich J. Krull, Professor
University of Toronto, Canada

Dr. Steven L. Jacques, Professor
Oregon Medical Laser Center, USA

Dr. Rejean Munger, Professor
University of Ottawa Eye Institute, ON, Canada

Dr. Michael Sowa, Group Leader, Spectroscopy
NRC-Institute for Biodiagnostics, Winnipeg, Canada

Dr. Tinko Eftimov, Professor
Université du Québec en Outaouais, Gatineau, Canada

Dr. Fred Milanovich, Professor
Lawrence Livermore National Laboratory, USA

Dr. Rémi Quirion, Scientific Director
Institute of Neurosciences, Mental Health & Addiction, Montreal, Canada

Dr. Yves de Koninck, Professor
Centre de recherche Université Laval Robert-Giffard, QC, Canada

Dr. David Cramb, Professor
University of Calgary, AB, Canada

Dr. David Armstrong, Executive VP
IatroQuest Corporation, Ottawa, ON, Canada

Dr. Richard Cline, VP R&D
Xillix Technologies Corporation, Richmond, BC, Canada

Dr. Daniel Houde, Professor
Université de Sherbrooke, QC, Canada

Dr. John Luong, Group Leader, Biosensors
NRC-Biotechnology Research Institute, Montreal, Canada

Dr. Tuan Vo-Dinh (Invited), Scientific Director
Center for Advanced Biomedical Photonics, ORNL, USA

Dr. Nils O. Petersen, Professor, VP of Research
University of Western Ontario, London, Canada

Dr. Dennis Matthews, Director
Center for Biophotonics Science & Technology, Livermore, USA

Who Will Benefit? Researchers, engineers, medical professionals, technology executives and managers seeking to learn more about biophotonics as an emerging multi-disciplinary field.

Sponsorship: Sponsorship opportunities are available and welcome. Your support will play a key role in the growth of this industry in Canada. Sponsor organization's logo and name will be included in all public announcements of BioLight 2003 and in all printed and electronic media related to the event.

For more details, please contact Dr. Stoyan Tanev, Program Manager, at (613) 746-3595 ext. 228 or at stoyan.tanev@vitesse.ca.

Register Early! Space is limited.

To register visit www.vitesse.ca

BioLIGHT 2003: Timetable

	Thursday, Nov. 13	Friday, Nov. 14, 2003 Security, Environment, Defence Application	Saturday, Nov. 15, 2003 Medical Applications	Sunday, Nov. 16, 2003 Biosciences Applications
8:00-8:30		Breakfast	Breakfast	Breakfast
9:00-10:00		Dr. Brian Wilson, <i>Ontario Cancer Institute, Toronto, Canada:</i> The Biophotonics Landscape – Overview, Challenges and Opportunities	Dr. Michael Sowa, <i>Institute for Biodiagnostics, NRC, Winnipeg, Canada:</i> Photonics Applications in Surgery and Trauma Assessment	Dr. Daniel Houde , Université de Sherbrooke, Québec, Canada: Biophotonics Applications in Radiobiology
10:00-11:00			Dr. Yves de Koninck, <i>Laval University, Québec, Canada:</i> Photonics: Challenges in Neurosciences	Dr. Tuan Vo-Dinh (Invited), <i>Center for Advanced Biomedical Photonics, ORNL, USA</i> Biosensors and Biochips for Medical Diagnostics and Biosciences Applications
11:00-12:00		Dr. Ulrich J. Krull, <i>University of Toronto, Toronto, Canada:</i> Multi-channel Fiber Optic Nucleic Acid Biosensors for Rapid Detection of Pathogens	Dr. David Cramb, <i>University of Calgary, Calgary, Canada:</i> Advances in Nonlinear Biophotonics	Dr. Nils O. Petersen, <i>University of Western Ontario, London, Canada:</i> Bioanalytics in Living Cells
12:00-14:00		Executive Luncheon Dr. A.E. (Ted) Dixon, <i>Biomedical Photometrics Inc., Waterloo, ON, Canada:</i> How Did I Get Into Biophotonics?	Executive Luncheon: Dr. Richard Cline, <i>Xillix Technologies Corporation, Richmond, BC, Canada:</i> Transitioning of Biophotonics Research to a Medical Device	Executive Luncheon & Closing Discussion Biophotonics for the Biosciences – Challenges and Opportunities. Biophotonics – Strategic Research and Business Opportunities
14:00-15:00	Arrival and Registration	Dr. John Luong, <i>Biotechnology Research Institute, Montreal, Canada:</i> Bio-Sensors Based on Optical Detection	Dr. Rejean Munger, <i>University of Ottawa Eye Institute, Ottawa, Canada:</i> Biophotonics for Vision, Health and Care	
15:00-16:00		Dr. David Armstrong, <i>IatroQuest Corporation, Ottawa, ON, Canada:</i> Biosecurity – A Growing Sector with Convergence Technologies	Dr. Tinko Eftimov, <i>Université du Québec en Outaouais, Gatineau, Canada :</i> Optical Fiber Sensor Technology Applications for Environmental Monitoring	
16:00-17:00		Dr. Fred Milanovich, <i>Lawrence Livermore National Laboratory, USA:</i> Defence Against Bio-terror: Detection Technologies, Implementation, Strategies and Commercial Opportunities	Dr. Steven L. Jacques, <i>Oregon Medical Laser Center, USA:</i> Biophotonics - Diagnostic and Therapeutic Applications in Medicine	
17:00-18:00	Official Opening & Welcome Reception Dr. Dennis Matthews, <i>Center for Biophotonics Science & Technology, Livermore, USA:</i> Biophotonics – A New Science and Technology Paradigm	Roundtable Discussion: Biophotonics in Security and Defence – Challenges and Opportunities	Roundtable Discussion: Biophotonics in Medical Applications – Challenges and Opportunities	
19:00-	Dr. Rémi Quirion, <i>Canadian Institute of Health Research, Institute of Neurosciences & Mental Health & Addictions, Montreal, Canada:</i> The CIHR and Biophotonics			

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