



# BioLIGHT 2003



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

Organized by: Vitesse Re-Skilling<sup>ä</sup> 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  
Oak Ridge National Laboratory, USA

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

**Dr. Dennis Matthews (Invited)**, 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](mailto:stoyan.tanev@vitesse.ca).

Register Early! Space is limited.

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

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