



BioLIGHT – 2003



Canada's First Biophotonics Primer & Workshop

Four Points Sheraton Hotel, Gatineau, Quebec

November 13-16, 2003

Organized by: Canadian Institute for Photonics Innovation & Vitesse Re-Skillingä Canada Inc.

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.

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

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

Brian Wilson, PhD, Professor

Ontario Cancer Institute, Toronto

A.E. (Ted) Dixon, PhD, CEO

Biomedical Photometrics Inc., Canada

Fred Milanovich, PhD, Leader, Chem/Bio National Security Program

Lawrence Livermore National Laboratory, USA

Ulrich J. Krull, PhD, Professor

University of Toronto, Canada

Steven L. Jacques, PhD, Professor

Oregon Medical Laser Center, USA

Rejean Munger, PhD, Professor

Ottawa University Eye Institute

Michael Sowa, PhD, Group Leader, Spectroscopy

Institute for Biodiagnostics, NRC, Winnipeg

David Armstrong, PhD, Executive Vice President

IatroQuest Corporation, Canada

Yves de Koninck, PhD, Professor, Director

Centre de recherche Université Laval Robert-Giffard

Remi Quirion, PhD, Scientific Director

Canadian Institute of Health Research, Institute of Neurosciences

David Cramb, PhD, Professor

University of Calgary

John Luong, PhD, Group Leader, Biosensors & Nanobiotechnology

Biotechnology Research Institute, NRC, Montreal

Richard Cline, PhD, VP R&D

Xillix Technologies Corporation, Canada

Bob Sutherland, PhD, President

Varian Biosynergy, USA

Tuan Vo-Dinh, PhD, Director, Advanced Biomed Technology

Oak Ridge National Laboratory, USA

Alex MacKenzie, PhD, Director

CHEO Research Institute, Ottawa, Canada

Who should attend? 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 logos and names 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.

To register visit: <http://www.vitesse.ca/programs/biophotonics.asp>. All BioLIGHT- 2003 participants are offered a special

registration fee (\$540 taxes included) for the BioNORTH 2003 Conference, Nov. 17-19, 2003, Ottawa, Canada: www.bionorth.ca.

Four points Sheraton Hotel reservations at: 1-800-567-9607, a discounted rate of \$115 CAN (taxes included) applies for BioLIGHT participants if hotel room is reserved before October 8, 2003.

Register early! Spaces are limited to ensure a creative atmosphere as well as active, comfortable and informal interaction between all participants and invited speakers.

	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		Brian Wilson, <i>Ontario Cancer Institute,</i> <i>Toronto, Canada:</i> The biophotonics landscape – overview, challenges and opportunities	Mike Sowa, <i>Institute for</i> <i>Biodiagnostics, NRC,</i> <i>Winnipeg, Canada:</i> Photonics Applications in Surgery and Trauma Assessment	Alex MacKenzie, <i>CHEO</i> <i>Research Institute,</i> <i>Ottawa, Canada</i> Title TBD
10:00-11:00			Yves de Koninck, <i>Laval University, Quebec,</i> <i>Canada:</i> NeuroPhysics: setting new frontiers in neuroscience with material sciences and photonics	Tuan Vo-Dinh, <i>Oak Ridge National</i> <i>Laboratory, USA:</i> Applications of bio- and nano-chips in biological sciences and medicine
11:00-12:00			Ulrich J. Krull, <i>Toronto University:</i> Multi-channel fiber optic nucleic acid biosensors for rapid detection of pathogens	David Cramb, <i>University of Calgary:</i> Title TBD
12:00-13:00		Executive Luncheon Ted Dixon, <i>Biomedical</i> <i>Photometrics Inc, Canada:</i> How did I get into Biophotonics?	Executive Luncheon: Richard Cline, <i>Xillix Technologies</i> <i>Corporation :</i> Transitioning of biophotonics research to a medical device	Executive Luncheon Remi Quirion, <i>Canadian Institute of</i> <i>Health Research, Institute</i> <i>of Neurosciences & Mental</i> <i>Health & Addictions</i> Title TBD Closing discussion Biophotonics for the Biosciences – challenges and opportunities
14:00-15:00		John Luong, <i>Biotechnology Research</i> <i>Institute: Bio-sensors based</i> <i>on optical detection</i>	Rejean Munger, <i>University of Ottawa Eye</i> <i>Institute, Ottawa, Canada:</i> Biophotonics for vision health and care	
15:00-16:00	Arrival and registration	David Armstrong: <i>IatroQuest Corporation,</i> <i>Canada:</i> Biosecurity – a growing sector with convergence technologies	Speaker TBD	
16:00-17:00		Fred Milanovich, <i>Lawrence Livermore</i> <i>National Laboratory, USA:</i> Defence against Bio-terror: Detection Technologies, Implementation, Strategies and Commercial Opportunities	Steven Jacques, <i>Oregon</i> <i>Medical Laser Center,</i> <i>USA:</i> Biophotonics - Diagnostic and therapeutic applications in medicine	
17:00-18:00		Official Opening & Welcome Reception Dennis Matthews, <i>Director of the Center for</i> <i>Biophotonics Science &</i> <i>Technology:</i> Biophotonics – a new science and technology paradigm Industry speaker: Bob Sutherland <i>Varian Biosynergy,</i> <i>The BioTech value chain</i>	Roundtable discussion: Biophotonics in Security and Defence – challenges and opportunities	Roundtable discussion: Biophotonics in medical applications – challenges and opportunities
19:00-				