



BioLIGHT 2003



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

Organized by: Vitesse Re-Skillingä 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

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

Dr. Eric Marcotte,
Regenerative Medicine, CIHR, Canada

Dr. Susan Springthorpe, Director of Research
Centre for Research in Environmental Microbiology, Ottawa University

Dr. Min Lin, Research Scientist
Canadian Food Inspection Agency, Ottawa, Canada

Dr. Robert Weersink, Director of Operations,
Biophotonics Facility, Photonics Research Ontario, Canada

Janet Walden, VP Research Partnerships Programs
Natural Sciences and Engineering Research Council of 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

Marc Wickham, Vice-President
Ventures West Management Inc., Ottawa, Canada

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

Dr. Yin Yeh, Professor
Department of Applied Science, University of California, Davis, USA

Richard Boudreault, Vice President
ART, Montreal, QC, Canada

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.

For more info, call Dr. Stoyan Tanev, Program Manager: (613) 746-3595 ext. 228 stoyan.tanev@vitesse.ca.

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 The Biophotonics Landscape – Overview, Challenges and Opportunities | Dr. Michael Sowa Photonics Applications in Surgery and Trauma Assessment | Dr. Daniel Houde Biophotonics Applications in Radiobiology |
| 10:00-11:00 | | | Dr. Yves de Koninck Photonics: Challenges in Neurosciences | Dr. Min Lin Fluorescence polarization - a unique and powerful tool for the diagnosis of infectious diseases |
| 11:00-12:00 | | Dr. Ulrich J. Krull Multi-channel Fiber Optic Nucleic Acid Biosensors for Rapid Detection of Pathogens | Dr. David Cramb Advances in Nonlinear Biophotonics | Dr. Niils O. Petersen Bioanalytics in Living Cells |
| 12:00-14:00 | | Executive Luncheon Dr. A.E. (Ted) Dixon How Did I Get Into Biophotonics? Richard Boudreault Time Domain Biophotonics Commercial Applications | Executive Luncheon: Dr. Richard Cline Transitioning of Biophotonics Research to a Medical Device Robert Weersink One path for Biophotonics Tech Transfer: The PRO Biophotonics IRL | Executive Luncheon & Closing Discussion Biophotonics for the Biosciences – Challenges and Opportunities. Biophotonics – Strategic Research and Business Opportunities |
| 14:00-15:00 | | Dr. John Luong Bio-Sensors Based on Optical Detection | Dr. Rejean Munger Biophotonics for Vision, Health and Care | |
| 15:00-16:00 | Arrival and Registration | Dr. David Armstrong Biosecurity – A Growing Sector with Convergence Technologies | Dr. Steven L. Jacques Biophotonics - Diagnostic and Therapeutic Applications in Medicine | |
| 16:00-17:00 | | Dr. Fred Milanovich Defence Against Bio-terror: Detection Technologies, Implementation, Strategies and Commercial Opportunities | Mark Wickham A VC's Perception of the Biophotonics Industry Sector Janet Walden NSERC's vision on converging science & technology sectors | |
| 17:00-18:00 | Official Opening & Welcome Reception Prof. Yin Yeh Introductory Comments on the Accelerating Field of Biophotonics Dr. Eric Marcotte The CIHR Initiatives in Regenerative Medicine – an Opportunity for Biophotonics | Dr. Susan Springthorpe On-line, real-time detection: the holy grail for drinking water microbiology Roundtable Discussion: Biophotonics in Security and Defence – Challenges and Opportunities | Roundtable Discussion: Biophotonics in Medical Applications – Challenges and Opportunities | |
| 19:00- | | | | |

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