



# Hands-on Workshop in Biophotonics

## ABOUT THE COURSE

This hands-on course will demonstrate to participants the application of Finite-Difference Time Domain (FDTD) method in biophotonics. Participants will have the opportunity to use state-of-the-art photonics simulation tools (Opti FDTD) and learn about their application in biophotonics problems.

## WHO CAN BENEFIT?

Biotechnology professionals and managers seeking to expand their skills and company expertise into the rapidly developing area of biophotonics and medical diagnostics.

Researchers and instructors interested in the application of the FDTD method and simulations tools in the teaching of biophotonics.

Professionals, managers and decision-makers in the photonics industry looking to expand into the medical diagnostics and biotechnology fields.

## COURSE CONTENT

- Introduction to optics and Maxwell's equations
- Introduction to the FDTD method
- Simulation of basic optical phenomena with FDTD
- Basic features of biological tissue optics
- Light scattering properties of biological cells
- Effects of cellular morphology on the light scattering patterns
- Bio-electromagnetic applications of the FDTD method
- Other optical methods in biological problems

## ABOUT THE INSTRUCTOR

Dr. Stoyan Tanev has obtained his Ph.D. degree from Université Pierre et Marie Curie, France. Dr. Tanev has significant research and engineering experience in the field of linear and nonlinear optics, optical simulations and, in particular, the applications of the FDTD methods in Photonics and Biophotonics. He has worked at Optiwave Corporation and Innovance Networks. Dr. Tanev has initiated the research and the development of the OptiFDTD which is now being acknowledged as one of the most powerful time domain Photonics simulation tools worldwide.

**WHEN?** March 5 & 6, 2003, 8:30 – 4:30

## WHERE?

March 5<sup>th</sup>  
(theory) Ottawa Life Sciences Council  
600 Peter Morand Cres., Suite 100  
Ottawa, Ontario K1G 5Z3

March 6<sup>th</sup>  
(lab) Optiwave Corporation (Training Facility)  
7 Capella Court  
Ottawa, Ontario K2E 7X1

## COST

- ✓ \$995.00 CDN + GST
- ✓ Lunch & Parking Included
- ✓ 15% Discount for more than one (1) person from the same organization
- ✓ 15% for researchers, faculty members and students

## REGISTRATION

Please fill the reverse side of this pamphlet and fax it to **613-746-6653** or call **613-746-3595**, ext 221



**Get in early on this exciting new field!**

**[www.vitesse.ca](http://www.vitesse.ca)**

# REGISTRATION

Please include a separate application form and fee for each individual.  
Fax: 613-746-6653

## COURSE FEE

	Item	Cost
✓	Hands-on Workshop in Biophotonics	<b>\$1065.00 (\$995.00 CDN + GST)</b>
	Subtract 15% of total (make sure to include GST) for registration of more than 1 person from the same company* (\$160.00) Subtract 15% for researchers, faculty members and students (\$160.00)	
	<b>TOTAL:</b>	

\*Authorization Information (for confirmation):

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Organization: \_\_\_\_\_

## PAYMENT INFORMATION

<input type="checkbox"/> Cheque (made payable to: Vitesse (Re-Skilling) Canada Inc.)
Credit Cardholder's Name (please print): _____
<input type="checkbox"/> Visa _____ expiry date _____
<input type="checkbox"/> Mastercard _____ expiry date _____
<input type="checkbox"/> Amex _____
Credit Card Number: _____
Signature: _____

## PERSONAL DATA

Title:	<input type="checkbox"/> Mr.	<input type="checkbox"/> Mrs.	<input type="checkbox"/> Ms.	<input type="checkbox"/> Miss	Other _____
Last Name			First Name		Middle Initial
Address			City		Province
Postal Code	Telephone (Home)	Telephone (Work)	E-mail		