NATO ADVANCED RESEARCH WORKSHOP

Frontiers in Planar Lightwave Circuit Technology:
Design, Simulation and Fabrication
September 21-25, 2004, Ottawa, ON Canada

PROGRAM

TUESDAY, SEPTEMBER 21ST

Opening session will be held at the Holiday Inn Hotel & Suites (Address: 111 Cooper Street, Ottawa, ON, K2P 2E3, Canada)

17:00-18:00 Registration

18:00-18:20 Official opening

18:20-19:00 Welcoming remarks

19:00-21:00 **Welcome reception and networking**

WEDNESDAY, SEPTEMBER 22ND

Sessions to be held at NRC-IMS (Address: 1200 Montreal Rd., Bldg. M-50, Ottawa, ON, K1A 0R6, Canada)

7:30 Bus departs hotel to NRC

8:00-8:30 **Registration and Breakfast**

8:30-9:30 Key Speaker talk and discussion**:** Microphotonics: Current Challenges and Applications, *Janz*

9:30-10:30 Key Speaker talk and discussion**:** Micro-Optical Resonators Devices, Materials and Technologies, *Benson*

10:30-11:00 **Coffee break and networking**

11:00-12:00 Key Speaker talk and discussion**:** Exploring the Integrated Optics Software Landscape, *Waechter*

12:00-13:30 **Lunch and free time**

Afternoon session to be moderated at the Canadian Photonics Fabrication Center (CPFC), Ottawa, Canada

13:30-14:00 Presentation by Dr. Frank Shepherd, CPFC: Micro-Fabrication Techniques at the CPFC

14:00-15:00 Key Speaker talk and discussion**:** Fabrication of Planar Waveguides: Techniques and Issues, *Lamontagne*

15:00-15:30 **Coffee break and networking**

15:30-16:30 Roundtable discussion: Micro-fabrication and etching techniques for sub-micron feature definition *All participants*

16:30-17:30 Visits and discussions at CPFC laboratories – exploring opportunities for research collaborations

17:45 Bus departs NRC to hotel

THURSDAY, SEPTEMBER 23RD, 2004

Sessions to be held at NRC-IMS (Address: 1200 Montreal Rd., Bldg. M-50, Ottawa, ON, K1A 0R6, Canada)

7:30 Bus departs hotel to NRC

8:00-8:30 **Breakfast**

8:30-9:30 Light by Light Interaction in Silicon-on-Insulator Waveguides: *Ruschin*

9:30-10:30 Key Speaker talk and discussion**:** Nonlinear Processes in High Index Contrast Semiconductor Waveguides, *Young*

10:30-11:00 **Coffee break and networking**

11:00-12:00 Ultra-Short Pulse Propagation in Non-Linear Planar Waveguides, *Romanova*

12:00-13:30 **Lunch and free time**

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THURSDAY, SEPTEMBER 23RD, 2004 (cont.)

Afternoon session moderated by the University of Ottawa

13:30-14:30 Key Speaker talk and discussion**:** Photonic Crystal Fabrication Techniques, *De La Rue*

14:30-15:30 Key Speaker talk and discussion**:** Advanced Simulations of High Contrast Photonic Structures, *Ctyroky*

15:30-16:00 **Coffee break and networking**
16:00-17:30 Roundtable discussion: High refractive index and photonic crystal devices, *All participants*
17:45 Bus departs NRC to hotel
18:30-21:00 **Reception at the British High Commission** (Address: 80 Elgin St., Ottawa, ON, K1P 5K7, Canada)

FRIDAY, SEPTEMBER 24TH, 2004

Sessions to be held at NRC-IMS (Address: 1200 Montreal Rd., Bldg. M-50, Ottawa, ON, K1A 0R6, Canada)

7:30 Bus departs hotel to NRC

8:00-8:30 **Breakfast**

8:30-9:30 Key Speaker talk and discussion**:** Polymer Based Waveguides for Highly Parallel Optical Interconnects in Printed Circuit Boards, *Offrein*

9:30-10:30 Key Speaker talk and discussion**:** Magneto-Optics Devices, Materials and Technologies, *Boardman*

10:30-11:00 **Coffee break and networking**

11:00-12:00 Key Speaker talk and discussion**:** Cascaded Nonlinear Optical Processes in Nonlinear Photonic Crystals, *Saltiel*

12:00- 13:30 **Lunch and free time**

Afternoon session moderated jointly by Optiwave Corporation and Rsoft Design

13:30-15:30 Roundtable discussion: Advanced optical software simulation tools, *All participants*

15:30-16:30 **Coffee break and networking**
16:30-17:30 Poster Session
17:45 Bus departs NRC to hotel

SATURDAY, SEPTEMBER 25TH, 2004

Sessions to be held at NRC-IMS (Address: 1200 Montreal Rd., Bldg. M-50, Ottawa, ON, K1A 0R6, Canada)

7:30 Bus departs hotel to NRC

8:00-8:30 **Breakfast**

8:30-9:30 Key Speaker talk and discussion**:** Surface Plasmon Resonance Biosensors for Food Safety, *Homola*

9:30-10:30 Key Speaker talk and discussion**:** Optical Biosensor Devices as Early Warning Systems for Biological and Chemical Warfare, *Lechuga*

10:30-11:00 **Coffee break and networking**

11:00-12:30 **Roundtable discussion:** Biophotonics – a New Technology Paradigm. Health, Environment and Defense Applications, *All participants*

12:30-13:30 **Lunch**

13:30 Bus departs NRC to hotel

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OTHER DETAILS

#5-8 are for participants booked at the Holiday Inn & Suites

1. Registration
   - begins on Tuesday, September 21st from 17:00 to 18:00 before the Official Opening and Welcome Reception
   - registration will continue on Wednesday, September 22nd before sessions begin
   - participation kits containing the presentation handouts for all sessions, speaker bios, delegates list, etc. will be distributed on the first day of the sessions, Wednesday, September 22

2. Receptions
   - there are two receptions:
   1. Official Opening and Welcome Reception, Tuesday, September 21st
   2. Reception hosted by British High Commission, Thursday, September 23rd

3. Poster Session
   - will be held on Friday, September 24th from 16:30-17:30
   - if you are presenting a poster, please complete a form at the registration desks on Wednesday, September 22nd OR Thursday, September 23rd
   - please be prepared to provide the following information on the form:
   a. Title of your presentation
   b. Name and affiliation of presenter(s)
   c. Abstract

***NOTE: changes to the program will be posted on our website at
http://www.vitesse.ca/programs/natoarw.sp?id=153&content_type=2
Please visit our websites for any updates prior to the workshop start date

4. About Ottawa http://www.ottawa.com/

5. Accommodations

Holiday Inn & Suites
111 Cooper Street
Ottawa, ON K2P 2E3
Tel: 1-613-2381331
Fax: 1-613-2302179
Email: reservations@hiottawa.ca
Check-In Time: 4:00 PM
Check-Out Time: 12:00 PM

6. Ottawa International Airport http://www.ottawa-airport.ca/

7. Ground Transportation to the Hotel from the Airport
   - there is an information booth regarding ground transportation is located on Level 1 in the 'Arrivals' area
   - for car rentals, limousine services or taxi services from the airport visit:
   http://www.ottawa-airport.ca/groundTransportation/carRental-e.php
   - we recommend the **Hotel Shuttle** bus:
     - departs from Level 1 outside the terminal in the 'Arrivals' area

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Hotel Shuttle Bus Information (cont.):

- **Hours of Operation:** 5:00am-12:05am
- **First airport pick-up:** 5:35am
- **Frequency:** every 30 minute
- **Departs from airport:** 5 and 35 minutes after the hour

It takes about 30 minutes from the airport to the hotel The shuttle goes to other hotels other than the Holiday Inn & Suites

- **Fares (in CDN $):**
  One-way: 1 person-$12.00, 2 people-$20.00, 3 people-$27.00
  Return: $20.00
  Suggestion: If you are a group of 3 or 4, we suggest you take a taxi to the hotel which will cost you approximately $25 (without gratuity). Taxis are available outside the terminal on Level 1 in the 'Arrivals' area.
- **Method of Payment:** Cash, Interact or Major Credit Card (Visa, MasterCard, American Express)
- **Other Information:**

a. Limited wheelchair accessibility
b. Shuttle times from hotel to airport: please inquire from the concierge
c. For more information, visit www.nationalairportshuttle.com or call (613) 260-2359

8. Bus Transportation to Sessions from the Hotel (September 22-25)

Departure time from the hotel to NRC-IMS – 7:30am
Departure time from NRC-IMS to the hotel – 17:45 (**except for on Sept. 25th it departs at 13:30)