

# Photonics Workshop of January 17, 2019

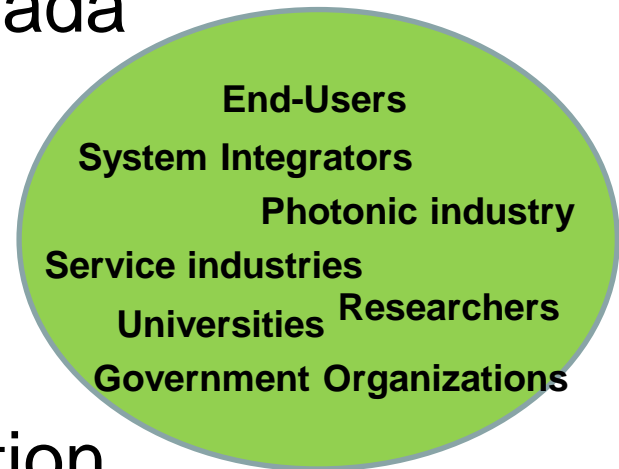
Atelier du 17 janvier 2019

Location: NRC, 1200 Montreal Road, Building 50, Ottawa

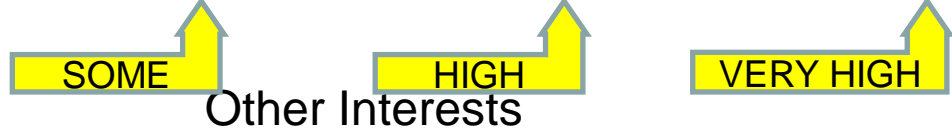
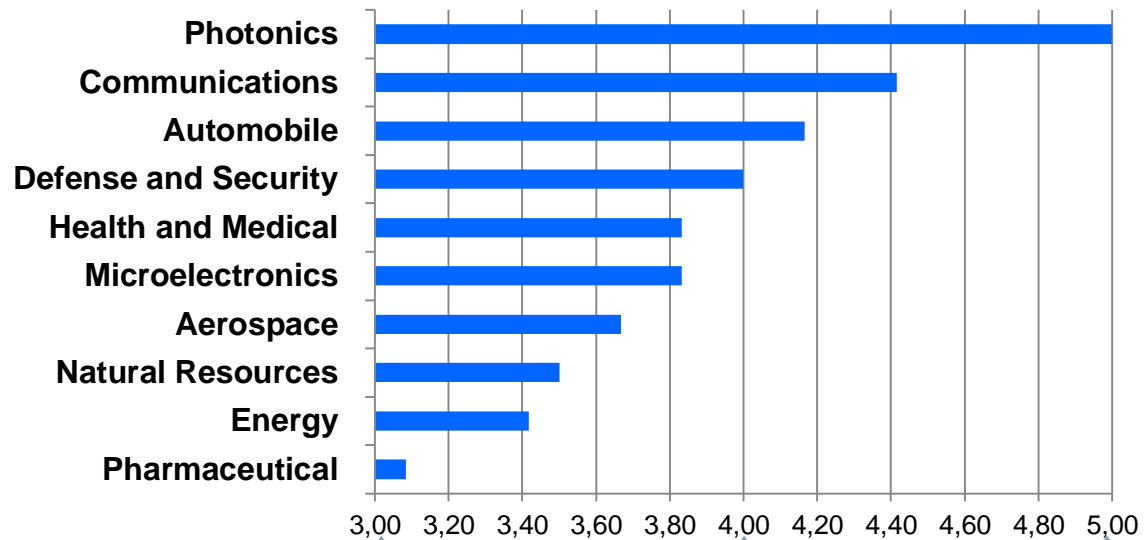
Time	Subject	Presenter
08:30	Introduction	Robert Corriveau, CPIC Marie-C. Ferland, Optonique Thomas Ducellier, NRC
08:50	Communications	Chris Ritchie, OCE
09:10	Defense	Richard Lestage, DRDC
09:30	Manufacturing	Frank Defalco, CME
09:50	Medical	Tim Pope, INO
10:10	BREAK	
10:40	Canada's National design Network Photonics Technology Directions	Robert Mallard, CMC Microsystems
11:00	Light-on-Board	David Rolston, Reflex Photonics
11:20	Imaging	Harry Page, Pleora
11:40	Photovoltaics/Energy	Karin Hinzer, U. of Ottawa
12:00	DISCUSSION on IMPORTANT TECHNOLOGIES AND APPLICATIONS for 2019-2020	Robert Corriveau, CPIC Marie-C. Ferland, Optonique
12:30	LUNCH	
13:30	Presentation and discussion on the NRC High and secure throughput Networks for rural and remote communities	Thomas Ducellier, NRC
16:30	CLOSURE	

# Canadian Photonic Industry Consortium

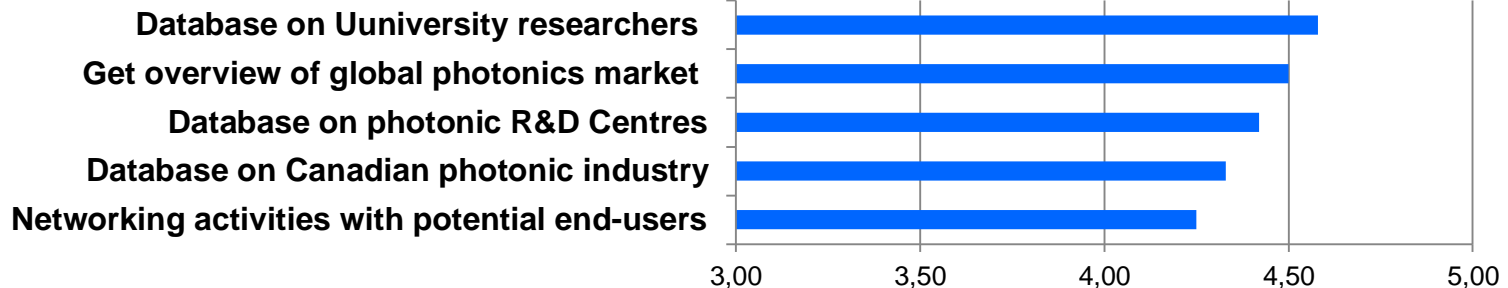
- **Vision:**
  - Photonics, a strategic engine for innovation and economic growth in Canada
- **Mission:**
  - Assist Canadian companies to optimize operations and improve profits by facilitating and accelerating the application of photonic technologies that improve quality, productivity and profitability.



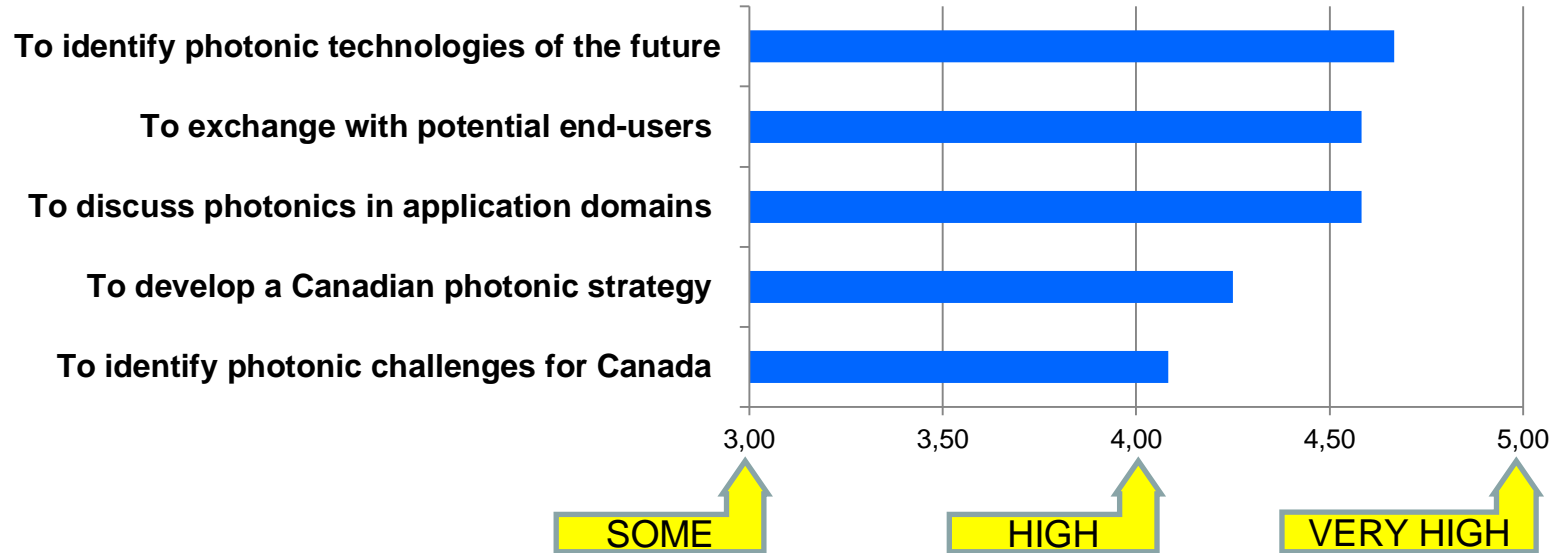
## Interest in Application Domains



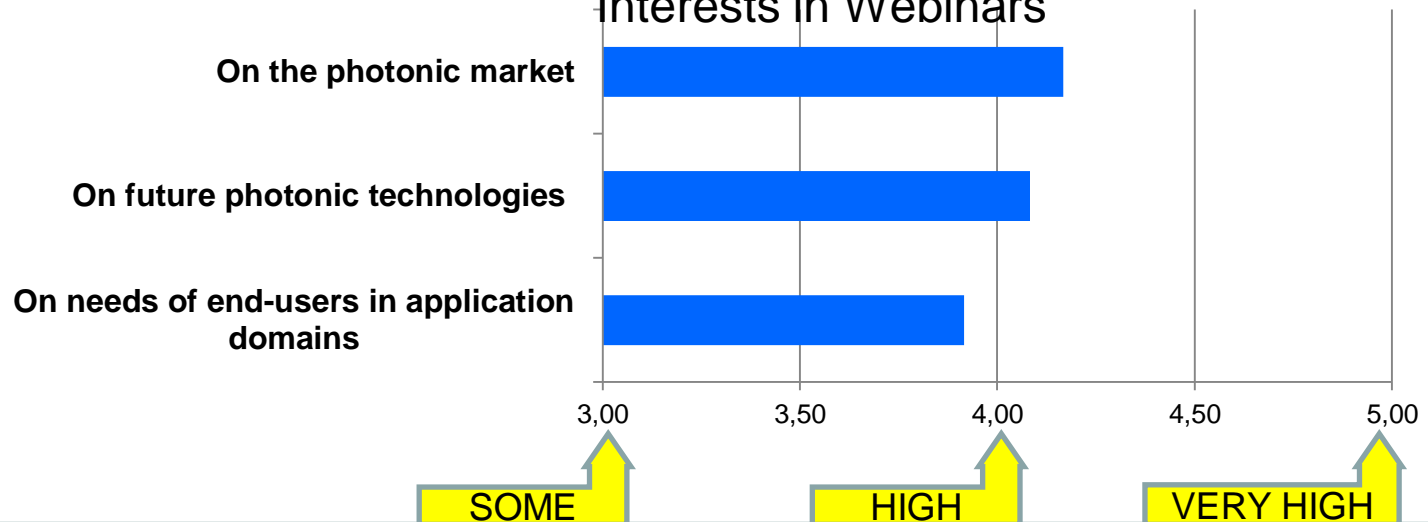
## Other Interests



## Interest in Workshops/Conferences



## Interests in Webinars



# Planned Activities in 2019-2020

- Objective:
  - Promote and accelerate the development and applications of photonics in Canada.
- How :
  - Organize forums, workshops and technical conferences on photonics and its applications
  - Generate and maintain a database on the Canadian capabilities and expertise in photonics
  - Identify the photonic technologies of the future
  - Identify the photonic technology and applications challenges which should be addressed by Canada
  - Provide a networking and representation service to industries, R&D centres and academic researchers.

# There are many photonic technologies

- Cameras and Imaging systems
- Computing, Data Processing Hardware
- Consulting Services
- Detectors, Sensors
- Displays
- Distributor, Reseller, Integrator
- Electrical/Signal Analysis Equipment
- Electronic Components
- Electronic, Digital Imaging
- Emerging Photonics Technologies
- Fiber Optics and Accessories
- Laser Components and Accessories
- Lasers and Systems
- LED, OLED, non-laser Light Sources
- Lithographic Equipment
- Materials, Abrasives, Chemicals
- Microscopes
- Micro-technology
- Misc consumables and equipment
- Mounts, Tables, Vibration Isolation
- Nanotechnology products
- Optical Coatings, Thin Films
- Optical Communication, Networking Devices
- Optical Components - Filters, Mirrors, Other
- Optical Components - Lenses
- Optical Fabrication Equipment
- Opto-mechanical Components, Devices
- Photonic Integration
- Positioning Equipment, Motion Control and ...
- Publishers, Associations, Clusters, Societies
- Semiconductor Defense Security
- Software
- Solar and Alternative Energy Technology
- Spectroscopy Devices and Equipment
- Test and Measurement, Metrology

Source: SPIE

# Photonic applications are numerous

- Astronomy
- Basic Research, Science
- Biomedical, Medical Imaging, Health Care
- Chemical and Biological Analysis
- Communications & Networking
- Computing Systems, Data Processing
- Consumer Electronics
- Defense, Security, Law Enforcement
- Displays: Consumer, Information, Entertainment
- Earth Sciences, Environmental Monitoring, ...
- Education and Training
- Industrial Sensing and Measurement
- Information Processing and Computing
- Laser Industry
- Lighting and Illumination
- Machine Vision, Factory Automation
- Materials Processing, Lasers in Manufacturing
- Optical Data Storage
- Optical Design and Engineering
- Optics Manufacturing
- Semiconductor Manufacturing
- Solar & Alternative Energy
- Structural and Infrastructure Sensing
- Vehicle Sensing and Control

Source: SPIE



What Technology,  
What Application  
should we prioritize  
for 2019-2020?





[robert.corriveau@photonscanada.ca](mailto:robert.corriveau@photonscanada.ca)