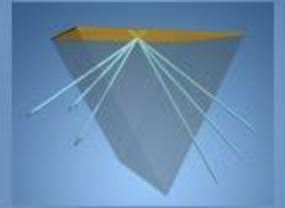


Advanced Photonic



Components Group



Current Collaborators from Carleton:

Prof. Chris Smelser, School of Information Technology

Prof. Anatoli Ianoul, Department of Chemistry

Prof. Sean Barry, Department of Chemistry

Prof. Mojtaba Ahmadi, Department of Mechanical and Aerospace Engineering

Current External Collaborators:

Prof. Christophe Caucheteur, Université de Mons (Belgium)

Prof. Tuan Guo, Jinan University (China)

Prof. Younes Messadeq, Université Laval

Prof. Réal Vallée, Université Laval

Dr. Michel Morin, TERAXION

Current students, Post-doctoral fellows and visiting scholars

Dr. Wenjun ZHOU (PhD 2015, currently Postdoctoral Fellow)

Plasmonics of ultrathin gold nanoparticle coatings

Dr. Hubert JEAN-RUEL (MITACS Postdoctoral Fellow)

Fiber based biomedical devices

Dr. Violeta MARQUEZ CRUZ (CONACYT Postdoctoral Fellow)

Metal assisted optical fiber biochemical sensors

Dr. Jose Antonio NOVOA LOPEZ (Postdoctoral Fellow)

Novel materials for nonlinear optics

Ms. Dingyi FENG (CSC Visiting Scholar)

Optical fiber structural sensors

Mr. Fu LIU (PhD student)

Advanced nonlinear fiber sensor devices

Ms. Sondos ALQARNI (PhD student)

Optical fiber devices for hyperthermia treatment of cancer

Mr. Hamed JAFARI (PhD student)
Multilayered glass for nonlinear optics applications

Ms. Hannah DINOVITZER (NSERC USRA Scholar)
Optical devices for biomedical applications

Past members of the group

Ruichao LI (M.Sc. 2013)
Fiber grating sensors

Milad A. DAKKA (M.Sc. 2014)
Fiber grating taps for visible light

Yan ZHOU (Visiting Scholar, 2013)

Dr. Yang ZHANG (Post-Doctoral Fellow, 2011-2012)
Fiber grating pressure sensors for the oil and gas industry

Dr. Sandrine LEPINAY (Post-Doctoral Fellow, 2012-2013)
Biochemical optical fiber sensors

Dr. Aleksander BELIAEV (PhD 2013)
Metal-dielectric photonic waveguide structures

Dr. Lingyun XIONG (Ph.D 2013)
Phosphate glass fiber laser cavities

Dr. Yanina SHEVCHENKO (Ph.D, 2012)
Surface Plasmon Resonance biochemical sensors on optical fibers

Dr. Ksenia YADAV (Ph.D, 2012)
Novel second-order nonlinearities in glass waveguides

Nina MAMAEVA (M.Sc. 2012)
Mode selection using Tilted Fiber Bragg gratings

Mohammad Zahirul ALAM (M.Sc. 2012)
Carbon Nanotube coated Tilted Fiber Bragg Gratings

Dr. TingTing SUN
(Research Associate, 2011-12)
Fiber grating sensors

Dr. Liyang SHAO (Post Doctoral Fellow, 2009-2011)
Fiber grating sensors

Dr. Christophe CAUCHETEUR (Visiting Fellow from Universite de Mons, July 2010)
TFBG Sensors

Dr. Guillermo VILLANUEVA (Ph.D. student from Valencia, SPAIN, May to August 2010)
TFBG devices for Fiber laser cavities

Yannick D'MELLO (B. Eng. student undergraduate researcher, May to August 2011)

Eduardo BARRERA (B. Eng., NSERC USRA, May to August 2010)
Fiber plasmonics

Dr. Qi JIANG (Visiting Scholar from Shandong University, started August 2009)
Fiber grating sensors

Dr. Peter KRUG Senior Research Scientist
Grating based optical fiber sensors

Dr. Chengkun CHEN (Ph.D. Carleton 2009)
Grating based optical fiber sensors

Dr. Dritan CELO (Ph.D. Carleton 2009)
Nanostructured film integrated optical gas sensors

Dr. Tuan GUO (Post-doctoral fellow, August 2007-July 2008)
Fiber grating sensors

Dr. Rodica ROGOJAN (Post-doctoral fellow, November 2006-June 2008)
Phosphate glass photosensitivity

Mr. Alexei IVANOV (M.A.Sc. Carleton 2007)
Optical fiber strain and bend sensors

Milad DAKKA (NSERC Undergraduate Student Research Award)
Gold coated TFBG simulations

Mr. Amir JAFARI (M.A.Sc. Carleton 2006)
Optical fiber refractometer

Ms. Tongning WU (Coop undergraduate student, summer 2007 and May-December 2008)
Optical fiber sensors

Dr. Weijian WANG (Research associate, May-Dec 2006)
Integrated optical sensor interrogator

Mr. Jeff VERGE (Coop undergraduate student, May-December 2005)
Laboratory automation

Mr. Norman FONG (NSERC Undergraduate Student Research Assistanship, May-Aug 2005)
Optical fiber sensors