

Canada-Japan Workshop

CLAN - JILS Collaborations in Advance Laser Applications

*Forging International Research Links with
CLAN: the Canadian Laser Application Network*

July 3, 2009, Tokyo, Japan

LPM and LAMP EVENTS (Kobe)

The Canada Japan Workshop follows immediately after the LPM and LAMP meetings in Kobe Japan, June 29 – July 30, 2009. Various preliminary Canada-Japan Collaborative discussions are planned during this prior meeting in Kobe. <http://www.lamp2009.org/index.html>

CANADA-JAPAN WORKSHOP (Tokyo) - July 3, 2009

PROGRAM (*tentative, watch for time changes*)

Co-chairs: Koji Sugioka (RIKEN), Peter R. Herman (University of Toronto)

10:00 **Welcome**

10:05 Workshop Objectives and Introduction to CLAN - Peter Herman

Session I: Research Activities

10:20 Satoshi Wada, MegaOpto, "199nm Vacuum Ultraviolet Generation Based on Fiber Lasers and Efficient Yb Ultrashort Pulse Laser System",

10:35 Guerman Pasmanik, Passat, Toronto, Uses for High-Energy Picosecond UV Lasers Proliferate

10:50 Peter Herman, University of Toronto, 5D Spectroscopy for Controlling Ultrashort Laser Processing in Optofluidic Microsystems

11:05 Minoru Obara, Keio Univ., "Collaboration in Laser Micro/Nano-Processing Community: an Experience".

11:20 **Panel Discussion I: Network Models – Mechanisms in Canada and Japan?**

11:50 **Lunch and Networking**

Session II: Canada-Japan Research Interactions

(Joint talk 1)

1:00 Tomokazu Sano and Akio Hirose, Osaka University, Collaboration with University of Waterloo under the Global COE Program for Advanced Structural and Functional Materials Design at Osaka University

1:15 Anming Hu and Norman Zhou, University of Waterloo, Formation of the Novel Diamond Phase Induced by Femtosecond Laser Irradiation

(Joint talk 2)

1:30 Kaoru Yamanouchi, Univ. of Tokyo, COAST and SRO Cooperation on Ultrafast Intense Laser Science and Attosecond Hydrogen Migration in Molecules in Intense Laser Fields

1:55 See Leang Chin, Laval University, Super-Excited Molecules in Femtosecond Laser Filaments in Air

(Joint talk 3)

2:10 Koji Sugioka, RIKEN, "Fabrication of 3D Optofluidics by Femtosecond Laser

2:25 Jan Dubowski, Univ. Sherbrooke, Quantum Semiconductor Biosensor Technology: A Missing Link to Total Solutions by Micro-Total Analysis Systems

2:40 **Panel Discussion II: Academic-Industry Interaction – Experiences in Canada and Japan**

3:10 **Networking and Refreshments Break**

Session III: Research and Industry Activity

3:30 Fumitaka Mafune, Univ. of Tokyo, Breakkdown of Hume-Rothery Rules in a Sub-Nanometer Sized Bimetallic Clusters

3:45 Michel Meunier, Ecole Polytechnique, Laser Nanoengineering for Biomedical Applications

4:00 Hiroyuki Niino, AIST-PRI, Progress in Laser-Induced Backside Wet Etching: One-Step Surface Microstructuring of Silica Glass

4:15 Victor Yang, Ryerson University, Swept Source Laser Development in Optical Coherence Tomography for Biomedical Application.

4:30 Kunihiro Washio, Paradigm Laser Research, Industrial Laser Markets and Technologies in Japan: Status and Trends

4:45 **Panel Discussion III: Identifying Strategic Partnerships for Canada-Japan**

5:15 **Closing** - Kaoru Yamanouchi, Univ. of Tokyo, Japan Intense Light Field Science Society

6:00 Dinner Banquet (TBA)