



## Canada-California Collaboration Workshop in Quantum Computing (C<sup>2</sup>CWiQC)

Monday March 31<sup>st</sup>, 2008 - Los Angeles (CA)

***"Bringing the Best of Research in Canada and California  
to Discover, Develop and Deliver"***

**Date:** Monday March 31, 2008

**Location:** Los Angeles, California

**Hotel Crowne Plaza, Los Angeles International Airport** (easy access from LAX airport)  
Website and map: [http://www.ichotelsgroup.com/h/d/cp/1/en/hotel/laxap?\\_requestid=90522](http://www.ichotelsgroup.com/h/d/cp/1/en/hotel/laxap?_requestid=90522)

A **block of room** has been reserved, reg. rooms at \$129 plus tax, available **until March 9<sup>th</sup>**  
Tel: 888-315-3700 or 310-642-7500; mention "Canada-California Quantum Computing Workshop"

There is a free Airport-Crowne Plaza shuttle.

Guests arriving by car get discounted parking rate (self-park at \$8, valet at \$10).

Car rental (if needed), rate from Hertz: 800-654-2240, [www.hetz.com](http://www.hertz.com) : ID# CV 022R1941

**Registration:** ATTN: Eric Holdrinet, Consulate General of Canada in Los Angeles  
Email: [eric.holdrinet@international.gc.ca](mailto:eric.holdrinet@international.gc.ca) , Voice-mail: 213-346-2758

**Tracks** (*for breakout sessions; please indicate your preference when registering*):

- Devices for Quantum Computing**  
Superconducting and semiconductor devices, Optical quantum computing and light-matter interfaces, ...
- Quantum Computing Processes and Algorithmics**  
Quantum error correction and fault tolerance, Quantum control and feedback, Quantum state & process estimation and characterization, ...
- Quantum Cryptography**

Should other aspects of Quantum Computing research come up which are especially opportune for Canada-California collaboration, they may certainly be presented and discussed. The tracks have been chosen to help focus the debate, because they are the most likely to align with the aims of the workshop, and because there is world-level strength of research in those fields in both Canada and California.

**Format:** Essentially, roundtable discussion about enhancing existing or new R&D projects. **Bring your own, put it up for discussion!**

*This will not be about papers presentations from past projects* (although explaining the context is always beneficial). It will be about current and upcoming projects that could benefit from scaling up and partnering. Please advise us of projects you want to present for discussion; advance work and networking could add much to efficiency.

### Who should participate:

- **Researchers** looking to expand research opportunities by sharing work, data and resources with top partners.
- **Technical leaders of companies** with a strong interest in those sectors.
- **Potential funders** for such research and recipients of transferred technologies.

**There will be no registration cost.** Breakfast & lunch are provided.

### AGENDA

#### Sunday March 30<sup>th</sup>:

19:00 Networking Reception

#### Monday March 31<sup>st</sup>:

7:30 *Breakfast*

8:15 Welcome, Introduction from CCSIP Steering Committee representatives

8:30 Plenary: The State of Quantum Computing Research in Canada and California (selected subjects)

10:15 *Break*

10:30 Breakout Sessions: Potential collaboration projects.  
Tracks: 1. Devices, 2. Processes and Algorithmics, 3. Cryptography

12:00 *Lunch*

13:00 Plenary: Presentation of subject discussed in morning Breakouts.

13:30 Breakout Sessions: Potential collaboration projects.  
Tracks: 1. Devices, 2. Processes and Algorithmics, 3. Cryptography

15:00 *Break*

15:15 (Suggested) Breakout Sessions: Simulations of government grant application for selected projects discussed in earlier breakouts; key components.

16:30 Plenary: Report on potential collaborations, Next steps.

17:00 Closing.

## Background:

The **Canada-California Quantum Computing Collaboration Workshop** is an initiative of the **Canada-California Strategic Innovation Partnership (CCSIP)**, (<http://www.ccsip.org>) which aims to assemble the best of Research, Development and Delivery (transfer and commercialization) in selected technology areas that are strategic to Canada and California, and where there is world-level strength of research in both jurisdictions. Project partners come from Academia, Industry and Governments.

Great success has been achieved since CCSIP's launch in 2006: 1) Linking the very-high-speed Internet infrastructures of Canada and California, 2) Founding (and starting funding) the Cancer Stem Cell Consortium, 3) Delivering industry briefings on cross-border investment barriers and on IP strategy for Canada-US collaborative projects. Numerous smaller collaborative endeavours are in motion.

We are now looking at the Quantum Computing sector to take advantage of the same positive factors that have brought success to other areas of collaboration. Definite intention to participate has already been communicated by several prestigious organisations, including USC, UC Santa Barbara, U.Waterloo's Institute for Quantum Computing, U.Toronto, U.Sherbrooke, UBC, U.Calgary, and private sector participants.

We look forward to meet you and work out innovative projects. Please indicate your **commitment and registration** by email or by phone; contacts below.

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**Please forward to  
potential participants**