

The Official PART Newsletter

Hard to believe that the first quarter of 2011 has already come and gone! The PART has been keeping busy. Keep reading to find out more!

March 2011

Celebrate Research Week

The PART participated in UBC Celebrate Research Week (March 4-11). An Open House gave local high school students the opportunity to learn about and demo the Phone Oximeter. Our post-doctoral Fellow Walter Karlen also presented at the *Postdocs in Medical Research* showcase at the CFRI Chan Centre.

TIVA-TCI World SIVA meeting

Simon Whyte, Mark Ansermino, Sara Khosravi, & Guy Dumont travelled to Singapore to present at the 3rd World Congress of Total Intravenous Anesthesia & Target Controlled Infusion in Singapore on March 31–April 2. This is an international gathering of world experts in total intravenous anesthesia.

February 2011



Mark Ansermino and Guy Dumont in the operating room

Brockhouse Award

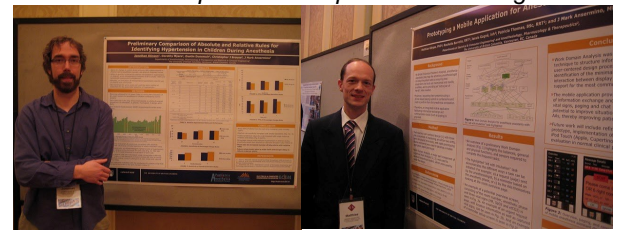
Congratulations to Mark Ansermino and Guy Dumont for winning the **2010 Brockhouse Canada Prize for Interdisciplinary Research in Science and Engineering**. This prestigious national prize awarded by the Natural Sciences and Engineering Research

Council of Canada (NSERC) recognizes outstanding Canadian researchers who combine their expertise in engineering and sciences.

January 2011

STA Annual Meeting

The PART presented five abstracts at the Society for Technology in Anesthesia (STA) meeting in Las Vegas, USA on January 12-15. This is the yearly gathering of anesthesia technology experts and we have been participating at this event for 8 consecutive years. The team included Mark Ansermino, Guy Dumont, Dustin Dunsmuir, Matthias Gorges, Walter Karlen, Joanne Lim & Jon Stinson. Congratulations to Walter (and co-authors Mark and Mike Blackstock – UBC MAGIC Lab) for the **Excellence in Technology Award** for their work on “*Location independence in patient monitoring*”.



PART posters at the STA annual conference; Jon Stinson (left), Matthias Gorges (right)

BIOSTEC conference

Walter Karlen presented two abstracts in Rome, Italy from January 26-29 for BIOSTEC – the 4th International Joint Conference on Biomedical Engineering Systems and Technologies. One of the abstracts was invited to be published as a **book section**: “*Photoplethysogram Processing Using An Adaptive Single Frequency Phase Vocoder Algorithm*” (Walter Karlen, Chris Petersen, Jen Gow, Mark Ansermino, Guy Dumont) in Biomedical Engineering Systems and Technologies, Communications in Computer and Information Science, 2011, Springer Verlag, Berlin Heidelberg.

Feature Study

eVent: An expert system for detecting critical events during anesthesia

A prototype clinical expert system has recently been developed by our research group. It uses a validated set of alarm thresholds and changes in vital sign trends for the identification of critical events. The rules used in the system were created using structured interviews with expert anesthesiologists. We are currently evaluating the system in the high fidelity simulated clinical anesthesia setting at CESEI (Vancouver General Hospital).

We are looking for staff and resident/Fellow anesthesiologists who would like to experience full scale simulation of "day-to-day" anesthesia scenarios. Contact Pamela Winton (pwinton@cw.bc.ca) or Matthias Gorges (mgorges@cw.bc.ca) for more information and/or to participate in this study.

Meet a Team Member

Nicholas West (Research Assistant)

Nick joined the PART in February. Nick's breadth and years of experience has brought a new perspective to the PART. Currently, you can find Nick working with Gill Lauder on the research projects that she is leading. You can reach Nick at 604-875-2000 x3646 or nicholas.west@cw.bc.ca.



Nick West – PART Research Assistant

Websites of Interest

Visit our website www.part.cfri.ca for an updated list of our current clinical and biomedical engineering studies.

Visit **Electrical and Computer Engineering in Medicine (ECEM)** <http://ecem.ece.ubc.ca> for information on the PART's collaboration with the UBC engineers.

Visit **Phone Oximeter** <http://phoneoximeter.org> for the latest information on the Phone Oximeter project.

Upcoming @ PART

What's happening April - June 2011?

IARS Meeting

The PART will be presenting eight abstracts at the upcoming International Anesthesia Research Society (IARS) conference here in Vancouver from May 21-24. We will also be hosting a scientific and educational exhibit to showcase some of the PART's and ECEM's latest technological innovations. *Find us at booth #10.*

CAS Meeting

The PART will be presenting six abstracts at the Canadian Anesthesiologists Society (CAS) annual meeting in Toronto from June 24-28.

Special Events Hosted by PART

May 18-20: International Pulse Oximetry Workshop (Location: Vancouver General Hospital)

June 11-12: Research Retreat (Location: Harrison Hot Springs Resort)

Research Meetings

First and third Tuesday of every month at 1pm in room A324

April 5 & 19, May 3 & 17, June 7 & 21

Anesthesia Department Research Rounds

April 20, May 18, June 22

Deadlines

- UBC C&W Research Ethics Board (REB) submission: April 13, May 11, & June 8
- ASA annual meeting abstract submission: May 1



January: Before the STA conference, Dustin, Matthias, Walter, Joanne & Jon spent a couple days visiting the Grand Canyon. Dustin blogged about the team's experience at -18°C! <http://dtdynamite.blogspot.com/2011/01/into-grand-canyon.html>



Pediatric Anesthesia Research Team

Tel: 604 875 2000 ext. 6669 • Email: part@cw.bc.ca • Web: www.part.cfri.ca