

The Official PART Newsletter

September 2011

New PART Members

The PART is ever expanding as we take on more projects and new areas of research. We welcomed two new staff members: *Dustin Dunsmuir* (Software Developer) and *Aryannah Umedaly* (Research Assistant). Dustin has worked with the PART as a student for the past few years and we were thrilled that he accepted a full-time position with the team. Aryannah is a recent university graduate and we are excited to have her join us. Welcome Dustin and Aryannah!

CFRI Trainee Research Competition

CFRI hosted the "A Minute (and a Half) to Win it!" competition for all trainees. Each presenter had 90 seconds and one slide to explain their research. Our PART participants included Klaske van Heusden and Walter Karlen.

August 2011

EMBC meeting

The PART (along with members of the ECEM group) presented at the annual Engineering in Medicine and Biology Conference (EMBC) in Boston, USA from Aug 30 – Sept 3. The posters and presentations were well received, and it was a great opportunity to meet new and old friends.

Mitacs Fellowship

Congratulations to Matthias Gorges on receiving a Mitacs Elevate Strategic Fellowship Program award!

July 2011

Saving Lives at Birth: A Grand Challenge for Development

Congratulations to Mark Ansermino and Peter von Dadelszen for leading the team to a seed grant for "Saving Lives at Birth: A Grand Challenge for Development". The project is entitled *PIERS on the Move: Pre-eclampsia Integrated Estimate of RiSk assessment on a mobile phone*. Read about the international challenge at

www.savinglivesatbirth.net.

We received national press coverage in The Globe and Mail, and on CTV's morning show, Canada AM. The team is extremely excited about the chance to bring our innovative technology into low-resource settings. Thanks go to everyone who has helped us along the way! Your support is much appreciated.



Mark Ansermino at the Development ^XChange in Washington, DC.

"See ya later Jon!"

We said "see ya later" to Research Assistant Jon Stinson. Jon started his nursing degree at UBC in September, but will continue working with PART as a work-study student. Good luck at school Jon!

CIHR Fellowship

Congratulations to Matthias Gorges on receiving a CIHR Post Doctoral Fellowship award! He will be working on his project entitled *Development and Evaluation of a Mobile Patient Monitoring Device for Nurses in the Intensive Care Unit*.

CHRP Award

Congratulations to Mark Ansermino and Guy Dumont on receiving a Collaborative Health Research Projects (CHRP) grant for *The Phone Oximeter: A simple, mobile device for respiratory disease management in the community*.

Clinical Fellows

July is a happy and sad time of year as we say goodbye to outgoing Clinical Fellows and hello to the incoming. This year we bid a fond farewell to Pamela Winton and Emma Whyte. We will miss Pam's caring

personality and Emma's fantastic sense of humour. ☺
On July 2, we welcomed Joy Sanders and Zoe Brown, both hailing from the UK. We look forward to working with them over the next year!



Pamela Winton, Carlyne Montgomery, and Emma Whyte at the Fellows Farewell dinner

Feature Study

"iControl" - Closed loop control of anesthesia in children

The iControl study is the first of its kind in Canada – computer controlled delivery of anesthetic for children. Traditionally, the anesthesiologist manually adjusts the pump to deliver a set amount of drug per minute. This rate is based around the child's weight. The ECEM team has developed methods to allow a computer control the infusion pump by measuring the drug's effect on the brain. The anesthesiologist chooses a desired level for how deeply asleep the child will be, and the drug infusion rate is adjusted by computer to get to and keep this level. Previous studies have shown that computer controlled drug delivery has the advantage that it reduces the total amount of anesthetic that is needed to keep adults asleep. We intend to find out if this is also true in children.

Contact Research Assistant Nick West (nicholas.west@cw.bc.ca) or 604-875-2000 ext.3646 for more information on this study.

Meet a Team Member

Dustin Dunsmuir (Software Developer)

Dustin joined the PART as a full time staff member in September. We have had the pleasure of working with Dustin for the past few years as a student. He brings experience in software design and development. You can contact Dustin at 604-875-2000 ext.5318 or ddunsmuir@cw.bc.ca



Dustin Dunsmuir – PART Software Developer

Websites of Interest

Electrical and Computer Engineering in Medicine (ECEM)

See the ECEM website (<http://ecem.ece.ubc.ca>) for information on the PART's collaboration with the UBC engineers.

Phone Oximeter

Visit our website at <http://www.phoneoximeter.org> for the latest information on the Phone Oximeter project.

Upcoming @ PART

What's happening October - December 2011?

Research Meetings

*First and third Tuesday of every month at 1pm in room A324
October 4 & 18, November 1 & 15, December 6 & 20*

Anesthesia Department Research Rounds

October 12, November 23

Deadlines

UBC C&W Research Ethics Board (REB) submission:
October 12, November 9, December 1



Some of the research team at the Fellows Farewell dinner at the Royal Vancouver Yacht Club



Pediatric Anesthesia Research Team

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