FROM THE CHAIR

WHEW!!! Classes are over for the term and I’m sure my sense of relief is shared by all who have worked hard at teaching, research, and service roles – professors, students, and staff. I expect to hear an even bigger sigh of relief when exams are done, graded, and marks submitted. For me, personally, it has been an immensely rewarding term of teaching our introductory physiology course. I was impressed by the level of interest and commitment to learning our students display. They seem to be a highly engaged, interactive, and curious group of learners, and it will be fun to track their progress as they proceed on to our upper level courses.

Our upcoming challenge of the BPK’s External Review got off to a great start with a highly collegial brainstorming Retreat. I am sure my colleagues will join me in the impression that our department is working very well as a unit and that our collective vision for our future at SFU is unified and bright. The summaries we received show us to be a lean yet highly productive unit in terms of our successful education and research programs. BPK is on the right track and is poised to grow our programs in exciting dimensions the moment the opportunity is presented.

I wish everyone a happy, healthy, and safe Holiday Season in the warm company of family and friends.

PETER RUBEN

AWARDS

ANNE-KRISTINA ARNOLD reports that AMANDA BRENNER, who is in the Ergonomics Concentration, is congratulated on winning the Undergraduate Award for Best Research Paper at the Association for Canadian Ergonomists Annual Conference in October 2010. Her paper outlined a user trial methodology used to evaluate a prototype underwater gloved developed in a KIN 496 directed studies course, which matched a BPK undergraduate Ergonomics Concentration student with 3rd and 4th year Industrial Design students. Congratulations also to JASON LEONG who came in second for the paper entitled, O2 Moba, The Oxygen Mobility Backpack: A Case Study on Ergonomic Design Approach.

FACULTY, GRADS, ASSOCIATES, ADJUNCTS, POST-DOCS & EMERITI

Congratulations to JAMES WAKELING, who was informed by Springer-Verlag that his paper, “Motor unit recruitment for dynamic tasks: current understanding and future directions,” published in The Journal of Comparative Physiology – B, Vol 179, Issue No. 1, January 2009 was one of the 10 most downloaded articles of this journal in 2009.

MIRIAM ROSIN and the BC Oral Cancer Prevention Program (which she directs) have just received a national award from the Canadian Dental Association for pioneering work into better defining the pathway to reducing the incidence of oral cancer in Canada. The CDA Oral Health Promotion Award was given in recognition of the long-term, multi-faceted work done by this group in advocating for heightened awareness of this disease among dental health professionals, for promotion and facilitation of early detection in community practices and for development of outreach to underserved communities. The program was also recognized for leadership in the development of new technologies to assist in recognizing and diagnosing oral cancer.

VICTORIA CLAYDON reports that her lab recently attended the American Autonomic Society Research Symposium in Florida. Excellent poster presentations were given by CLARE PROTHEROE, RIANNE RAVENSBERGEN, and INDERJEET SAHOTA. JESSICA INSKIP was selected to give an invited oral presentation. The subject areas and subsequent published abstracts are below.


CL PROTHEROE, A DIKAREVA, VE CLAYDON (2010) Are compression stockings really an effective treatment for


VICTORIA CLAYDON also reports that INDERJEET SAHOTA has successfully completed his MSc proposal. His thesis title is Cerebrovascular control following spinal cord injury. As well, RIANNE RAVENSBERGEN has successfully completed her PhD comprehensive exams. Thesis title is Cardiovascular consequences of autonomic dysfunction after spinal cord injury.

On December 9th, ANDY HOFFER presented at the BC Transplant Research Institute 2010 Transplantation Research Day, a paper titled “Transvascular diaphragm pacing for improved donor organ preservation” co-authored by MOHAMMAD ABU LAILA, MARCELO BARU, BERNARD COQUINO, COLIN FRANCIS, RAM MEYYAPPAN, MARK NOLETTE, RODRIGO SANDOVAL, JAMES SAUNDERS, SURBHI SERU, JESSICA TANG, BAO TRAN and HELEN WANG.

Congratulations to the following students from the Aerospace Physiology Laboratory (ANDREW BLABER, Supervisor) AMANMEET GARG for successfully defending his MSc thesis (see below); CLINT LANDROCK for successfully defending his MSc thesis: “Stochastic Analysis of Motor-Control Stability, Polymer Based Force Sensing and Optical Stimulation as a Preventative Measure for Falls,” and MICHELLE BRUNER for a successful MSc thesis proposal: “The Effect of Head Injury on Cardiovascular and Postural Controls.”

DEFENCES

Successfully defended:

AMANMEET GARG MSc
November 12th, 2010
“The interaction between cardiovascular and posture controls and the effects of ageing.”
Examiner Committee:
ANGIE BROOKS-WILSON, Chair
ANDREW BLABER, Senior Supervisor
CARLO MENON, Supervisor
PHILIPPE SOUVRESTRE, Supervisor
ANDREW RAWICZ, External Examiner

CLINT LANDROCK MASC
November 15th, 2010
“Stochastic Analysis of Motor-Control Stability, Polymer Based Force Sensing, and Optical Stimulation as a Preventive Measure for Falls.”
Examiner Committee:
CARLO MENON, Chair
BOZENA KAMINSKA, Senior Supervisor
ANDREW BLABER, Supervisor
PHILIPPE SOUVRESTRE, External Examiner

BPK CO-OP NEWS

2011 Careers in Biomedical Physiology and Kinesiology Evening

The annual Careers in BPK will be on Wednesday, January 26th, 2011 from 3:30 - 8:30 pm. Please save this date. The event will start with registration at 3:30 and will kick off with research faculty lab tours for undergraduate students at 3:45 pm. Exhibits and employer displays will run from 4:30 - 7:00 pm. Five concurrent breakout sessions will run three times starting at 5:30 - 8:00 pm, with the grand prize draw and dessert at 8:15 pm. Most of the guest speakers are SFU Kinesiology alumni who will speak about their personal career journey and current position. The following presenters have confirmed their attendance:

FRAZANNA ISMAIL, Senior Ergonomic Consultant, Focus on Ergonomics and ACE (BC) President
ANDREW MONTGOMERI, Director Health Care Services WorkSafeBC and CKA Vice President
ANNALISE (nee WICKERS) Luong Disability Management Consultant, Fraser Health Authority (SFU KIN Grad 2004)
WILBOUR KELSICK, Chiropractor MaxFit Movement Institute (SFU KIN Grad 1992)
TERRY JACOBSEN, Certified Pedorthist, Ossur Orthopaedics (SFU KIN Grad 1994)
ASHLEY COLLINS, Athletic Therapist, SFU Athletics (SFU KIN Grad 2010)
ANNE-KRISTINA ARNOLD Certified Professional Ergonomist and SFU Lecturer Biomedical Physiology and Kinesiology Department
ERIN SLOAN, 2nd Year UBC Internal Medicine Resident (SFU KIN Grad 2004)
BEN JONG, 1st Year UBC Medical student (SFU KIN Grad 2008)
TINA CAREY WILLIAMS Physiotherapist (SFU KIN Grad 2004)

This career event is jointly coordinated by the BPK Co-op office and BPKSA with special thanks to the Dean of Science, the Director of BPK and SFSS for their support.

DARLEEN BEMISTER
BPK Co-Op Coordinator
COLIN JONES, former Dean and Professor Emeritus announces that former Dean MIKE PLISCHKE, and current Dean CLAIRE CUPPLES strongly support the following upcoming Seminar Series and encourage everyone to attend.

GLOBAL WARMING: A SCIENCE PERSPECTIVE

All Seminars will be held on consecutive Wednesdays during Spring 2011, with the exception of March 15\textsuperscript{th} (see below). The first Seminar is on February 23\textsuperscript{rd} and the last one on March 30\textsuperscript{th}.

Time: 12:30 p.m.
Place: IRMACS Theatre

All seminars will be streamed live on the web and be available later through the Faculty of Science web page. The seminars will be pitched at a general audience of undergraduate and graduate students and faculty from across the Faculty of Science. The "follow-up discussions" will be open to any interested parties with questions to ask.

1) Wednesday, February 23\textsuperscript{rd}

\textbf{The Instrumental Temperature Record and what it tells us about Climate Change.}

FRANCIS ZWIERS, Director of the Pacific Climate Impacts Consortium, University of Victoria, BC.

Follow up discussion in the IRMACS Board Room 2.00-3.30 pm. Host Department: Statistics (RICHARD LOCKHART).

2) Wednesday March 2\textsuperscript{nd}

\textbf{Climate Change and the Melting Polar Ice-caps.}

KENNETH GOLDEN, Professor of Mathematics and Adjunct Professor of Bioengineering, University of Utah.

Follow up discussion in the IRMACS Board Room 2.00-3.30 pm. Host Department: Mathematics (NILIMA NIGAM)

3) Wednesday March 9\textsuperscript{th}

\textbf{The Role of the Oceans in Climate.}

KEVIN TRENBERTH, Senior Scientist and Head of the Climate Analysis Section, National Center for Atmospheric Research, Boulder, Colorado.

Follow up discussion in the IRMACS Board Room 2.00-3.30 pm. Host Department: Biosciences (WENDY PALEN).

4) TUESDAY, March 15\textsuperscript{th}

\textbf{The Role of Clouds and Water Vapor in Climate Change.}

DAVID RANDALL, Professor, Department of Atmospheric Sciences, Colorado State University, Fort Collins, Colorado.

Follow up discussion in the IRMACS Board Room 2.00-3.30 pm. Host Department: Physics (MIKE PLISCHKE).

5) Wednesday March 23\textsuperscript{rd}

\textbf{The CLOUD Experiment at CERN.}

JASPER KIRKBY, Head of the CLOUD Experiment, CERN, Geneva.

Follow up discussion in the IRMACS Board Room 2.00-3.30 pm. Host Department: Physics (IGOR HERBUT).

6) Wednesday March 30\textsuperscript{th}

\textbf{Responding to the Climate Change Challenge.}

THOMAS PEDERSEN, Professor and Director of the Pacific Institute for Climate Solutions, University of Victoria, BC.

Follow up discussion in the IRMACS Board Room 2.00-3.30 pm. Host Department: Chemistry and Earth Sciences (TIM STORR and GWEN FLOWERS).

Merry Christmas &
Happy New Year!