FROM THE DIRECTOR

Kinesiology members continue to make impressive strides in terms of teaching and research.

THOMAS CLAYDON joined us in January 2008. He brings expertise in ion channel research and has received funding from NSERC and the Heart & Stroke Foundation. He is also the winner of the Paul Cranefield Society of General Physiologists Award.

VICTORIA CLAYDON also joined us in January 2008. She brings expertise in baroreceptor research in spinal patients and high-altitude populations, and will be performing research studies in the acute spinal unit at Vancouver General Hospital.

MAX DONELAN, who specializes in the biomechanics of walking, made international news headlines in February 2008. This was in the wake of his publication in Science of the biomechanical energy harvester which he and his coworkers invented in his laboratory. Max’s spinoff company, Bionic Power Inc., includes ANDY HOFFER and QING GUO LI as founders along with Max, and VERONICA NAING, all from the School of Kinesiology.

Wade Parkhouse will be the newly appointed Dean of Graduate Studies effective September 1st, 2008. Wade has been Associate Dean for Research and Graduate Studies in the Faculty of Applied Sciences for many years, so this move is a highly deserved promotion.

Peter Ruben

SFU OPEN HOUSE

May 31st, 2008

For details visit: http://www.sfu.ca/openhouse2008/

The Open House Working Committee for the School of Kinesiology has some fun and exciting plans ahead, including lab demonstrations from: MAX DONELAN, MIRIAM ROSIN, JAMES WAKELING and the Environmental Physiology Unit (EPU).

If you’d like to participate or have questions, contact VAN TRUONG. We’d love to see everyone there!

KINES CONVOCATION RECEPTION

Plan now to attend a Reception to celebrate our new Kinesiology BSc, Honors, MSc, and PhD graduands.

Date: Friday, June 6th, 2008
Place: Halpern Centre
Time: 4:15-5:45 p.m. (approx.)

Please RSVP to LAURIE KLAK (klak@sfu.ca) by Friday, May 23rd, 2008.

FACULTY, Adjuncts & Grad Students

While on study leave in Nara, Japan, and Christchurch, New Zealand, CHRISTINE MACKENZIE made the following presentations and workshops:


Diane Finegood’s research group has finished their relocation process. The Chronic Disease Systems Modelling Lab is now located in TASC2 8460. We would like to welcome back...
HOLLY BUHLER as she conducts a pilot project with us on her break from her Masters program in International Public Health in Uppsala, Sweden. Additionally, we are happy to announce new lab members on our team. REBECCAH MARSH will be working with us on a collaborative basis to explore questions in obesity using mathematical modelling.

DUNCAN MILNE reports that a Discovery Canada program filmed last year in the Environmental Physiology Unit aired on the Discovery Channel in January. Nitrogen narcosis as experienced by divers in the hyperbaric chamber wet pot at a simulated depth of 160 feet sea water was highlighted. View the episode online at: http://watch.discoverychannel.ca/guinea-pig/guinea-pig-under-pressure/#clip2 DVD copies are also available for viewing.

JAMES WAKELING reports that JOSEF KROLL, who came to work in his lab, recently won the Young Investigator ward at the 4th International Congress on Science and Skiing, St. Christoph-Arlberg, Austria, 2007 for the following presentation: KROLL, J, WAKELING, JM, Seifert, J & Mueller, E. EMG signal processing by wavelet transformation – applicability to alpine skiing. James has also received NSERC funding.

THOMAS CLAYDON has been awarded the Society of General Physiologists Paul F. Cranefield Award, Post Doc category, for his paper: A direct demonstration of closed-state inactivation of K+ channels at low pH. J Gen Physiol. May, 2007:129(5):437-455.

As a result of the above, THOMAS CLAYDON has now been invited to attend the 2008 Annual Meeting and Symposium of the Society of General Physiologists this Fall, September 10-14, in Woods Hole, Massachusetts to receive his award and to present his work in a presentation. He will also receive a price of $2,000.

VICTORIA CLAYDON was the Invited Symposium Speaker at the 24th International Seating Symposium in Vancouver, March 5-9, 2008, entitled “Unstable blood pressure control during sitting and standing in patients with neurogenic disorders.”

MIRIAM ROSIN reports that in March the Rosin lab saw the formalization of an oral cancer screening dentists network across BC. This involved the release of first guidelines for screening anywhere in North America or Europe, in partnership with the College of Dental Surgeons of BC and the BC Oral Cancer Prevention Program. In April the guidelines will go across Canada to all dental practices, and will be published in a special edition of the Journal of the Canadian Dental Association, along with 11 articles detailing protocols for screening. In March there was the signing of a Memorandum of Understanding (MOU) between India and BC, with the Dr. Anil Kohli, President of the Dental Council of India representing India. This MOU will open dialogue on the education and empowering of dental networks for screening in both countries.

A Leading Edge episode titled “Wired Walking,” on ANDY HOFER’S research is posted at http://www.knowledgenetwork.ca/leadingedge/2008/index.html

EPU CONFERENCE

On February 26th, 2008 the Environmental Physiology Unit (EPU) sponsored the WESTERN CANADIAN CONFERENCE ON ENVIRONMENTAL ERGONOMICS AND PHYSIOLOGY in the Halpern Center. There were more than 60 conference delegates in attendance, with participation from universities across North America and keynote speakers from industry/community and academia. Roundtable discussions were held on industry/community involvement in the EPU and on preparing a NSERC Major Resources Support Grant to extend the EPU to a regional facility.

Below are the oral and poster presentations from the EPU or SFU Kinesiology.

Oral Presentations
(alphabetically)

BLABER, ANDREW, PhD. NIRS assessment of vasoconstriction in the calf muscle of subjects with low and high tolerance to LBNP.

CLAYDON, VICTORIA, PhD. Cerebrovascular responses to hypoxia and hypocapnia in Ethiopian high altitude dwellers.


KIM, KT (MATTHEW), PhD. Hyperthermia significantly increases ventilatory response to isocapnic hypoxia in humans.

KOEHLE, MIKE S, PhD, MD. The effects of shallow diving on pulmonary function.

POONEH AFKARI, MSc. How does repeated exposure to low temperature water influence fine and gross motor task performance and thermal comfort/pain?

WHITE, MATTHEW D, PhD. Pulmonary ventilation and human temperature regulation.

Poster Presentations:
(alphabetically)

ALLEN, C, BLABER, AP. Cardiorespiratory and pulmonary function changes following twelve weeks of breath-hold diver training. Winner of the Student Poster Award
Beaudin, A, White, MD. The central chemoreflex ventilatory response to carbon dioxide following acclimation to a hot environment.

Chambault, J, Grand G, Kayser, B. Respiratory muscle training improves time trial performance more in hypoxia than in normoxia.

Christensen, JPH, Jay, O, White, MD. Cold shock response during sudden face only immersion at lower water temperatures.

Chu, AL, Jay, O, White, MD. The interaction of hypoxia and core temperature on ventilation during sub-maximal exercise.

Geh, C, Jennings, J, White, MD. Influence of diving on recognition memory, cognitive and psychomotor performance in males and females.

Giles, LV, Koehle, MS, Walsh, ML, White, MD. Influence of lower body positive pressure on chemosensitivity.

Koehle, MS, Giles, LV, Walsh, ML, White, MD. Influence of lower body negative pressure on chemosensitivity and baroreflex sensitivity.

Lee, P, Dice, MS, Abbruzzese, JL, Wheeler, JT, Groome, JR, Fujimoto, E, Ruben, PC. Temperature-sensitive defects in paramyotonia congenita mutants R1448C and T1313M.


Milne, D, Koehle, MS. Effects on diver underwater performance at depth with equal Pp N2 but varying Pp O2.

Pourvali, S, Strath, R, Blaber, AP. Tonopen vs non-contact tonometer: comparison of intraocular pressure measurements at altitude.

Vieira, A, Cheng, J, Yao, Y. Environmental pathophysiollgy of oxidative stress: evidence for ROS-mediated changes in cellular transport and age-dependent changes in redox balance.

Walsh, ML, Curtis, AN, White, MD. Development of a breath-by-breath end-tidal forcing system.


**Publications**


Village, J and Morrison, JB. 2007. Whole body vibration. In: Kumar S (ed), Biomechanics in Ergonomics, 2nd Edition. CRC Press, Taylor & Francis Group, Baton Rouge, FL, pp 565-596. (Judy Village is a graduate of our School [MSc Kinesiology, 1988] and is an ergonomics consultant and adjunct faculty member, School of Environmental Health, UBC).


**Careers in Kinesiology**

The normally cold stairway of the Technology and Science Building was full of excitement and anticipation on the evening of Thursday January 24th, 2008 as students lined up for the annual Careers in Kinesiology evening. This annual event gives undergraduate kinesiology students a chance to take part in question and answer sessions with various professionals in kinesiology related fields. As well, a wide array of exhibitors shared their knowledge with the students. After some choice words by the Director of Kinesiology, Peter Ruben, the night was soon underway.

Organized by Kinesiology Co-op and the Kinesiology Student Association, the aim of the event was to showcase what can be done with a kinesiology degree in a relaxed and casual environment. Before attending the three sessions, students perused booths from exhibitors in kinesiology related companies. Networking was in the air as students jotted down notes and made business connections. Definitely a win-
win situation, as these potential employers got to attract over 150 attendees in a single evening.

Another major draw to the event is the comfortable question and answer sessions. Students are not presented with forgettable lectures, but self-lead discussions with the industry professionals. Many find this format to be quite worthwhile, non-intimidating, and very dynamic. **SAJNY PHILIP**, a second year student with career aspirations in physiotherapy, found the small group format made it easy to ask questions that applied to everyone.

According to third year kinesiology student **JENNIFER TSE**, “the evening opened my options with respect to career goals, especially since I haven’t decided what to do yet, and that a lot can be done with a kinesiology degree!” To conclude the evening, Kinesiology Student Association President **ERIN MEGGAT** awarded numerous raffle prizes to lucky students.

The Kinesiology Student Association would like to thank all the donors, session presenters, and exhibitors. As well, all volunteers who helped make this evening a success.

**Session Presenters:**
* Jason Exner, MD  
* Fiona Petigara, Medical Student, UBC  
* Catherine Trask, Graduate Student, SFU  
* Happy Jihaj, Kinesiologist  
* Ryan Jeans, Physiotherapist  
* Jenny Finnegan, Occupational Therapist

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**RYAN WOODLAND**  
Kinesiology Major

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**KINESIOLOGY YEAR END PARTY**

You are invited!

**KINESIOLOGY DINNER DANCE AND SILENT AUCTION**

Come have tons of fun with fellow Kinesiology students while being glamorous on the red carpet!

**When:** Sunday, April 20th  
**Where:** Westwood Plateau Golf and Country Club, 3251 Plateau Boulevard, Coquitam  
**Time:** Doors open at 6p.m.  
**Theme:** Hollywood  
**Price:** $45

This is a great community building event, and is always a lot of fun...and the food is really good! This year is a Hollywood theme, so put on your dancing shoes and get ready to be attacked by some paparazzi! Tickets can also be purchased at any time from **LAURIE KLAK** in the main Kines office. Hope to see you there!

**ERIN KASTELEIN**  
President  
Kinesiology Student Association

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**pruben@sfu.ca / lazaro@sfu.ca**