

**DIRECTOR’S CORNER**

During the last month I attended the CCUPEKA meeting in Windsor, Ontario. At this meeting, much of the discussion again revolved around the process of accreditation for schools of kinesiology as well as schools of physical education. At the moment the School of Kinesiology at SFU would not satisfy the guidelines in terms of courses in the core in fields such as psychology, sociology, and philosophy. I have discussed this issue with QUENTIN BECK and with TONY LEYLAND as a Co-op Coordinator and Chair of UPC respectively, and have decided that I will formulate a response to CCUPEKA suggesting that science based Kinesiology programs could perhaps have different criteria applied to them. I will circulate a copy of my letter before mailing.

Earlier this month, I attended a meeting of the Health Professions Council with respect to the scope of practice of physical therapists. This was of some concern because of a number of what they claim to be reserved acts that should only be performed by physical therapists. The issues as far as our students were concerned were ably discussed by NANCY JOHNSTON and DONNA CARSWELL. QUENTIN BECK also discussed the implications of the scope of practice document for our graduates. She was there representing BCAK. Quentin presents more information later in this newsletter. JIM MORRISON discussed the implications for those working in the field of ergonomics and human factors. My principle point was that some of the so-called reserved acts are frequently practised by faculty members in kinesiology as part of their research. Should anyone wish to see the scope of practice preliminary report, Marianne has a copy. Hopefully, our concerns will be addressed in the final document emanating from the Health Professions Council.

\[\text{John Dickinson}\]

**CONVOCATION**

June 4th, 1999 was Convocation Day. This year we had 109 students graduating with a BSc in Kinesiology. There were 15 Co-op graduates among those.

Also convocating were 2 PhD students and 6 MSc students. (A complete list of graduands appears at the end of this newsletter.)

Of special note is the fact that CAMERON HAGUE won the Gordon Shrum Gold Medal.

Congratulations to all of our Kinesiology graduates!

**FACULTY, ADJUNCTS & GRAD STUDENTS**

It can now be announced that DIANE FINEGOOD and her team of researchers are receiving $2.7 million over three years for diabetes research. The money comes from the Juvenile Diabetes Foundation of Canada (JDFC) and the Medical Research Council (MRC). Diane’s group will be working with fellow researchers in BC, Alberta and Ontario. In BC, Diane will be working with Bruce Verchere, Dr. Rusung Tan, Dr. Jan Dutz and Janet Chantler, all with the BC Research Institute for Children’s and Women’s Health, UBC.

PARVEEN BAWA has just returned from a month-long visit to participate in the “Miami Project to Cure Paralysis” at the University of Miami. She worked with former graduate student, Dr. BLAIR CALANCHIE and anaesthetist Dr. Fred Bindle. The project involved examining autonomic reflex responses in complete tetraplegic individuals.

Congratulations to graduate student JAMES CARTER who has been awarded a Heart and Stroke Foundation of BC & Yukon Research Traineeship.

ANDREW BLABER presented a keynote address at the
Canadian Medical and Biological Engineering Society Conference. His presentation was entitled, *Space biomechanics challenges for the new frontier.*

CHRISTINE MACKENZIE ran a successful 1999 Strategic Workshop recently, (1) for industry partners, collaborators, faculty and students involved in the NSERC Strategic Project, *Virtual and Augmented Environments for Surgery, Remote Manipulation, Design and Training.* About 30 individuals attended. She wants to thank UILO, CSS offices and all her students for their support and hard work.

CHRISTINE MACKENZIE, ALAN LOMAX, YANQING WANG, REGAN MANDRYK and JENNIFER IBBOTSON were guests at the 17th Virtual Worlds Consortium hosted by the Human Interface Technology (HIT) Lab at the University of Washington in Seattle.

Professor Emeritus, ERIC BANISTER, was an invited speaker at the Canadian Institute of Food Science and Technology Annual Conference in Kelowna. His paper was entitled, *Challenges to food and fluid intake in long distance running.* Eric Banister has also been invited to teach a seminar course in the department of Kinesiology at the University of Minnesota this summer. His course is entitled, *Training Theory: Science and Coaching.*

ANDY HOFFER co-authored with Glen Chapman from the School of Engineering Science, an infrastructure grant application for a UV laser micromachining system for biomedical and microelectronic applications that has been awarded a Canada Foundation for Innovation Infra-structure Grant of $105,600, a $73,400 matching grant from the BC Knowledge Development Fund and cash contributions from two industrial partners, NeuroStream Technologies, Inc. and Epic Bioso.nics. The equipment is to be installed in the micromachining facility later this year and will be the first of its kind in Vancouver.

DIANE FINEGOOD was in Copenhagen, Denmark from May 16-19th to give talks at NovoNordisk A/G on *b-cell Mass Dynamics in the Pathogenesis of Diabetes Mellitus: A Mathematical Model-Based Approach* and at the Steno Diabetes Center on *Neonatal Beta-cell Apoptosis: A Trigger for Autoimmune Diabetes?*. She then traveled to Paris, France (May 20-21) and gave a talk at INSERM U 457, Hopital Robert Debre on *b-cell Mass Dynamics in the Pathogenesis of Diabetes Mellitus.*

Also, many members of the Diabetes Research Laboratory will be attending the American Diabetes Association Annual Meeting in San Diego, June 19-22 to give the following poster presentations:

- **Duct Cell Proliferation Does Not Contribute to Focal Area Formation in the Pancreas of Glucose-Infused Rats.** MARK LIPSETT, DIANE FINEGOOD
- **Net Cell Death Contributes to Remodeling of the b-cell Mass in the Neonatal BioBreeding Rat.** WARREN FIELDUS, CATHERINE FIELD, DIANE FINEGOOD
- **Contributions of b-cell Defects and Insulin Resistance in the Pathogenesis of Type 2 Diabetes: An Integrated Model of Glucose Homeostasis.** BRIAN TOPP, M. DAWN MCARTHUR, KEITH PROMISLOW
- **Graded Suppression of Insulin Release Does Not Reduce Glucose Tolerance in Rats.** M DAWN MCARTHUR, BRIAN TOPP, LUONG TRAN.
- **The PPARg Agonist Rosiglitazone Decreases Net Loss of Pancreatic b-Cell Mass in Zucker Diabetic Fatty Rats.** DIANE FINEGOOD, M DAWN MCARTHUR, DAVID KOJWANG, MARION THOMAS, ROBIN BUCKINGHAM, THOMAS LEONARD

The BC Nutrition Council recently awarded sessional JEAN FREMONT their 1998 annual award for nutrition communication for her web page and the nutrition resources guide book with web links.

The School of Kinesiology was well represented at last week’s North American Society for the Psychology of Sport and Physical Activity (NASPA). Papers and posters presented included:

- **The relationship between age, competitive experience and running times in masters athletes,** J. Starkes, P. Weir, P. Singh, N. Hodges, TRACEY KERR.
- **Effects of transient mild head injuries on phase transition observed in a bimanual coordination task,** REBECCA BRUMER, MICHAEL GAETZ, FANNY HANSEN, ANTHONY BROUGH and DAVID GOODMAN.
- **Remote manipulation using tongs,** JENNIFER IBBOTSON, CHRISTINE MACKENZIE, ANDREA MASON.
Prehensile and bimanual coordination in give and take protocols, ANDREA MASON, CHRISTINE MACKENZIE.

Coordination during a combined locomotion/prehension task. CHRIS BERTRAM, RON MARTENIUK, MICHELLE WYMER.

The role of vision in prehension. MICHELLE WYMER, RON MARTENIUK, CHRIS BERTRAM.

Effects of intermittent vision on prehension. S. Bennet, D. Elliott, DAN WEEKS.

It should also be noted that ANDREA MASON is one of the NASPSPA Officers listed for 1998-1999 in her role as Student Representative.

While at NASPA DAN WEEKS also visited Embry-Riddle University in Florida where he was the guest of the Human Factors Department. There is a possibility of collaborative research there in pilot behaviour.

**Co-operative Education Program**

In the summer of 1999, we placed the highest number of students EVER! There are 58 students who gained employment in areas of research, rehabilitation, ergonomics, health and fitness, wellness, summer camps for disabled children, etc. I will be on campus approximately 2 days per week in June and July visiting students at their work sites.

During site visits, coordinators take the opportunity to obtain feedback regarding students performance. Numerous employers have commented on the poor quality and qualifications of junior students. Students themselves are often intimidated trying to find their first work experience. The new program that Nancy and Donna have developed, Moving Beyond, does address these areas for students. In addition there are several events/initiatives that have been established through cooperative education to improve the employability of students. These are some of the events which will occur this summer:

- BCRPA challenge exams, CBI Physiotherapy and Rehabilitation Tour, Workers’ Compensation Board Tour, Advanced Ergonomics recruitment session, Ergorisk Management Group recruitment session, Spinal stabilization course.

Faculty and staff are welcome to attend any of the events. In addition, students are encouraged to participate in information interviews, independent tours, volunteer hours or mentorship.

**WE NEED ERGONOMICS STUDENTS!** Over the past year, the number of ergonomic co-operative education opportunities for students has increased. Presently there are employment opportunities for students at: Nortel, Advanced Ergonomics, Ergorisk Management Group, Healthcare Benefit Trust, Vancouver Hospital, BCRI, etc. However, we do not have enough qualified students applying to these positions. If you know of any students who are interested in obtaining volunteer experience please ask them to speak with me!

DAVID LEE was nominated and awarded the Dr. Abe Unrau Memorial Co-op Prize. Dave was nominated based upon his high academic standing, outstanding employer evaluations and contribution to co-operative education. Dave Lee who graduated this semester, is currently working on contract with the Workers’ Compensation Board (Internal Ergonomics Unit). He will be coordinating a tour for students in August where they will have an opportunity to meet with Kinesiologists who work in contract Ergonomics, the Functional Capacity Evaluation Unit, the Rehabilitation Unit and the Prevention Department.

**BCAK**

The BC Association of Kinesiologists held it's Annual General Meeting and conference on May 1 and 2, 1999. On the two days following the event, representatives from Kinesiology Professional Associations from across Canada met face-to-face for the first time to coordinate the developmental plan for the Canadian Kinesiology Association.

The BCAK recently coordinated a group response to the proposed Scope of Practice Change by the Physical Therapists. There was strong response from the BCAK, School of Kinesiology, Co-operative Education, ACE (previously HFAC) and BCRPA. The Health Professions Council had reviewed the initial proposal by Physical Therapists and had removed from the Scope of Practice and Reserved Acts the references that we had opposed related to the Restrictions on: Ergonomic evaluations, exercise prescriptions, monitoring, case management etc. At present the HPC is reviewing the Scope of Practice of all regulated Health Professionals. In addition, the HPC developed a working paper on Shared
Scope of Practice. The intention of the document is to reduce exclusivity in order to enhance interdisciplinary practice, improve accessibility to health care services and increase consumer choice, while at the same time maintaining the fundamental objective of protecting the public. If you are interested you may review the information on the Health Professions Council website at www.hpa.bc.ca.

The Health Professions Council in private encouraged the BCAK to apply for regulation under the Health Professions Act (HPA). The BCAK executive will develop a committee to review the HPA application and meet with the HPC during the summer. Involvement from the University would be an asset, and we encourage any interested faculty or staff to become involved.

QUENTIN BECK
Co-op Education Coordinator

Tours & Recruitment Sessions:
(Visit the Co-op bulletin board or reply to qbeck@sfu.ca)

ERGORISK MANAGEMENT RECRUITMENT SESSION
Friday, June 18, 1999  9:00 am
Room WMX 2521

Kevin Sholes from ERGORISK MANAGE-MENT GROUP will be on campus to conduct interviews for the co-operative education positions for the fall. Kevin will be also be providing a 20-30 minute information session for students to learn more about the opportunities offered by ERGORISK. ALL STUDENTS are welcome to attend the information session. Ergorisk is a company which specializes in industrial ergonomics and rehabilitation. They have sites on Vancouver Island. Kevin is a past graduate from SFU. Visit their website at www.island.net/~ergorisk

Core Stability: Anatomy and Functional Exercises for Stabilizing the Pelvis and Lower Back, Wednesday, July 14, 1999, 6:30-9:00 pm, MBC 1302
Fee: $15.00 students, $25.00 for health care professionals. $5.00 of each fee is donated to the Kinesiology Student Association (KSA)

Objective: 1. Present basic anatomy of the musculature of the abdominal area and supporting structures.
2. Demonstrate a variety of isolating and functional exercises using thera-balls, body weight, and other common equipment found in a fitness club or health care clinics that will help improve posture and provide greater stability of the pelvis and lower back. RICK KASELJ is an SFU Kinesiology co-operative education graduate who works at Port Coquitlam Physiotherapy and Sports Injury Clinic. To ensure the session is participatory, enrollment is limited to 20 participants.

CANADIAN BACK INSTITUTE TOUR, Burnaby Location - Suite 160 - 5172 Kingsway Avenue
Thursday, JUNE 24 at 6:00

Katharine Donovan, a kinesiologist working at CBI Burnaby will take students on a tour of the facility, explain the role of Kinesiologists working at the Canadian Back Institute and answer your questions. This information session and tour is valuable for students looking for work in any type of rehabilitation facility. CBI is just beginning to take Kinesiology co-operative education students. They have 6 clinics in BC and over 40 nationally. They are the single largest employer of Kinesiologists in Canada. There is limited space available—15 participants. Preference will be given to those co-op student who are applying to a CBI co-op position for the fall. (NOTE: This tour is now full, but you can be waitlisted while it is determined if a second tour can be arranged.)

ADVANCED ERGONOMICS RECRUITMENT SESSION
Tuesday June 15, 1:00 pm at SFU WMX 3255 West Mall Complex.

NIKKI RAY from Advanced Ergonomics and VANESSA HAWES the current co-operative education student will provide a presentation on co-op opportunities at Advanced Ergonomics. ALL students applying to AEI for the fall semester are strongly urged to attend, as are all students interested in working in the Ergonomics field.

Nikki is an SFU graduate who provides insightful information on how to break into the ergonomics field. She will discuss academic, volunteer and work experience. AEI is a regular employer of SFU Kinesiology co-operative education students and graduates. AEI is the fastest growing ergonomics company in Western Canada.

Watch for further events coming up this summer: WCB tour, to be coordinated by Dave Lee, Kinesiology Co-operative Education graduate. This will be a unique opportunity to see the areas where Kinesiologists work at WCB: contract ergonomics, Functional Evaluation Unit, Rehabilitation Centre and the Prevention Unit.
DEFENCES

Successfully Defended:

FARHAD SEDARAT M.Sc.  
Title: Immunolocalization of Dihydro-pyridine and Ryanodine Receptors in Developing Rabbit Myocycles using 3-Dimensional Microscopy  
May 28th, 2:30 p.m., ASB 9896

GRADUANDS

Congratulations to the following students in the School of Kinesiology who have graduated:

M.Sc. Graduates:
K-John Cheung  
Gayle Heinrich  
Laurel Ritmiller  
Kim Vanderhoek  
Liqun Xu  
Li Zhang

Ph.D. Graduates:
Axel Mulder  
Dan Robinson

B.Sc. in Kinesiology grads:
Keith Allan  
Jennifer Anderson  
Tania Arora  
Daniel Baker  
Michael Baldwin  
Sara Beaton  
Deea Bell  
Matthew Bernard  
Vincenzo Biondo  
Chris Birch  
Sanjeev Bodwal  
Cameron Brine  
Holly Brown  
Anne Buch  
Ronald Carlos  
Gurkirn Chahal  
Eva Chiu  
Brian Cho  
Roger Chong  
Voon Chong  
Bertha Choy  
Rita Cicone  
Bradley Copland  
Andrew Cordy-Simpson  
Hanna Custodio  
Laura. Cuthbertson  
Kyle Davies  
Kenny Der  
Sukheep Dhaliwal  
Carrie Dodd  
Rebecca Dunn  
Samantha Elliott  
John Frangolias  
Jonathan Froese  
Vina Gandhi  
Rachel Gibson-Bull  
Gina Grain  
Gurdish Grewal  
Sandy Guan  
Nadia Guglielmini  
Michael Haffner  
Fannie Hansen  
Kristen Hoyrup  
Jennifer Ibbotson  
Catalina Ip  
Robert Iwasaki  
William Jang  
Gregory Jennens  
Carol Kelpin  
Megan Konkin  
Davina Kraubner  
David Lee  
Charmaine Leung  
Kevin Leung  
Jonathan Loh  
Julian Lowe  
Marian MacNeil  
Kam Mark  
Christian Marshall  
Snehal Mehta  
Daniel Meichenbaum  
Stephen Moreland  
Carolyn Murray  
Shaheen Musani  
Andrew Neitzel  
Wing Ng  
Fiona Nowotny  
Saman Omidi  
Keith Orlaw  
John Oswald  
Erin Parisien  
Tamsyn Pengilly  
Ingrid Pettyfer  
Lee Phillips  
Michael Potkonyak  
Sheazin Premji  
Joseph Purves-Smith  
Christopher Reid  
Craig Richards  
Matthew Robertson  
Mylee Ross

Ryan Sanderson  
Mandip Sanghera  
Pepsi Sarai  
Nadine Sauve  
Charlyne Schaeffer  
Jonathan Shepherd  
Balpreet Sidhu  
Lorraine Siem  
Robyn Singer  
Sharon Singh  
Tara Smith  
Angus Staniforth  
Sukhwant Sumbal  
Mark Swain  
Heather Taylor  
Wendy Tefft  
Kim Thompson  
Dorothy Tupper  
Robin Van Hooren  
Rida Wang  
Robertson Wong  
Waymen Wong  
Russel Wood  
Derrick Young  
Mary Yip  
Hae-Rang Yu  
Jennifer Zander  
Robert Zubic

Co-op Education Graduates
Certificates  
(3 successful co-op placements)  
Eva Chiu  
Carolyn Murray  
Keith Orlaw  
Christopher Reid

(4 successful co-op placements)
Rachel Gibson-Bull  
Sandy Guan  
Fannie Hansen  
Jennifer Ibbotson  
William Jang  
Megan Konkin  
David Lee  
John Oswald  
Wendy Tefft  
Kim Thompson  
Dorothy Tupper

Please submit your news items to: dickinson@sfu.ca / lazaro@sfu.ca