We recently learned the sad news that one of our colleagues, Dr. **Arthur Chapman**, Professor Emeritus, has passed away. On behalf of all of us in the BPK Department, our sincere condolences to his family, friends, and colleagues (see In Memorium).

Arthur was an integral member of our Faculty for many years and played a critical role in developing the Biomechanics curriculum in our department. Many of his students (including our own Tony Leyland) have gone on to academic positions around the globe.

Arthur had a witty and dry sense of humour coupled with an extensive knowledge of and passion for human biomechanics that made him an excellent and highly respected teacher. He loved his field of teaching and research and could not understand why anyone would be interested in anything other than biomechanics. He would often pseudo-mockingly ask those of us researching at cellular and molecular levels of the organization about how our “work” was going with those meaningless and colourless solutions.

Of course, one of Arthur’s real passions was sports and he was a gifted athlete in many sports. I remember him asking me early on after my arrival at SFU which sports I played. I mumbled something about having played a little squash as an undergraduate at McGill prompting him to ask me if I wanted to play sometime at SFU. Unbeknownst to me at the time, this was more like a professional hustler in a billiards hall asking the incoming rookie if he was up for playing a little snooker. The event was shortlived and not pretty – I believe that parts of my racket and teeth are still embedded in the walls of one the SFU squash courts today.

Arthur had a tremendous role in the department as both an academic and as a person and he will be missed.

**Dr. Arthur E. Chapman**

**Sept 25th 1941 to March 1st, 2014**

Dr. **Arthur Ernest Chapman**, Professor Emeritus, passed away on March 1st, 2014. We honour his memory with the following tribute.

Dr. Chapman’s initial appointment in 1970 was as Visiting Assistant Professor. In 1975 he was appointed as Assistant Professor in the Department of Kinesiology. In 1978 he was promoted to Associate Professor, he was tenured in 1980, and in 1984 he became Full Professor in the School of Kinesiology. On January 1st, 1999 Dr. Chapman officially retired and became Professor Emeritus.

His main research interest was in the field of biomechanics and has included validation and modification of mechanical models of human muscle by means of direct observation in vivo and the mechanical properties of squash balls, rackets and shoes and their implications for manufacturing and strategy in the game. His most recent research interest was in computer simulation of control and performance of sporting movements, kinematics and kinetic criteria of skills involving gross body movements, and the modelling of human body motion using external inputs of force and internal inputs of muscle force.

Dr. Chapman received his PhD from London University (England), his MPhil degree from the University of London in 1969, his MA degree from Ohio State University in 1966, and his DLC Diploma from Loughborough College, England, in 1963. A 1965 Fulbright scholar, Chapman was also selected as the Rosenstadt Research Professor for the University of Toronto in 1992.

Dr. Chapman published 35 refereed papers in his field and presented more than 45 papers for refereed conferences, seminars, and workshops throughout the world, in addition to serving as reviewer for several journals and granting bodies. In 2008 Human Kinetics published his book entitled *Biomechanical Analysis: Fundamental Human Movements*.

Arthur taught courses in Human Biomechanics and Mechanical Properties of Tissues with emphasis on mechanical models of muscle. He also taught Occupational Biomechanics. His latest research hinged on the simulation of human movement with future applications to retraining of dysfunction and predicting potentially injurious situations. He dealt with the lifting and manual handling section of a full ergonomic study of a major printer, and has also been called in to be an expert witness in personal injury cases.

Arthur also served the department in various roles such as past Undergraduate Advisor and development of the Kinesiology Undergraduate Student Association, past Chairman of the Undergraduate Program Committee and the Graduate Program Committee, and the Tenure and Promotion committee, to name a few. At the University level, he was a member of Senate, FIDS Graduate Studies Committee, Senate Committee on Honorary Degrees, Senate Graduate Studies Committee, Excellence in Teaching Committee, and the Senate Graduate Awards Adjudication Committee.

**Glen Tibbits**

Arthur would be delighted to be remembered as having been the Founder, Member and first President of the SFU Squash Club. Within the community he had numerous involvements including consultant on the mechanics of skating, lectures to the BC Coaching Association, teaching biomechanics section of Level IV NCCP to apprentice coaches at the University of Victoria in addition to coaching certification for the Canadian Racquets Association.

It should be noted that Arthur was a superb athlete. He played rugby at the highest level, including for an English combined university team that played the New Zealand All Blacks when they were on a tour of the UK. He was also captain of Rosslyn Park, a team playing at the highest level of English rugby. When Arthur first came to SFU squash was his main sport and not surprisingly he played competitively at the highest level in Vancouver. Some of his biomechanical research looked at frictional properties of different squash court flooring and the mechanical properties of squash racquets and strokes. Eventually he became an avid golfer. Arthur probably felt he never mastered the sport, certainly not to the level he played other sports. However, as always, he studied and researched the mechanics of his “last” sport with his deep passion for human movement.

A memorial service for Dr. ARTHUR CHAPMAN will be held at 2:00 p.m. on April 19th, 2014 at the Point Grey Golf & Country Club, Vancouver, BC.

This article/post is also on LinkedIn at: http://tinyurl.com/leqgmx3

TONY LEYLAND, one of Arthur’s former students and currently Senior Lecturer in the BPK Dept, contributed to this article.

The 5th Annual Biomedical Physiology and Kinesiology Research Day took place on March 28th. This year, we were proud to host Dr. VICKY SCOTT (Senior Advisor, Fall and Related Injury Prevention, BC Injury Research Prevention Unit and the Ministry of Health) as a guest Keynote Speaker. Dr. Scott, who was selected and invited by the BPKGSA, gave a very interesting talk about mechanisms for translation of research outcomes to the population.

Four students (JESSICA INSKIP (V CLAYDON, Supervisor), CATHERINE KANG (M ROSIN, Supervisor) ALEXANDRE LAURIN (A BLABER, Supervisor) and LAUREN TINDALE (A BROOKS-WILSON, Supervisor) whose abstracts were most highly ranked gave excellent Oral Presentations on their latest research projects.

Fuelled by coffee and lunch, attendees were next involved in a busy Poster Session with 31 presentations from our current graduate and undergraduate students involved in BPK research.

The best undergraduate, MSc and PhD poster presentation awards went to KIMIYA SABBAGHAN (V CLAYDON, Supervisor), CLAIRE ZHENG (C KRIEGER, Supervisor), and COLIN PETERS (P RUBEN, Supervisor), respectively.

Set against this back-drop, RANDY GOODMAN and CHRIS MCLEAN from Fortius Sport and Health, BC gave an informative presentation on the role they would like to play in future BPK research.

The day wrapped up with food, draws for the door prizes, presentations of best poster awards and a jazz band!

The event proved to be an exciting showcase of the depth and breadth of current BPK research, and created the opportunity for undergraduate and graduate students to learn more about the strength of current research within the department.

Thank you to all Organizing Committee members: JOYCE CHING, JESSICA INSKIP, CATHERINE KANG, ALEXANDRE LAURIN, MATTHEW LLOYD, STEVE McGEE, EMILY O’HEARN and SAMRAT THOUTA.

Thank you also to: SUSIE NUGENT, SABRINA AZARIA, DARLEEN BEMISTER, JOE WOO and LAURIE KLAK.

And thank you to all the Poster Judges: V CLAYDON, C KRIEGER, D MARIGOLD, D POBURKO, M ROSIN, P RUBEN and M WHITE.

For those who missed the event, or wish to view the proceedings booklet, here is the link at the BPK website: http://www.sfu.ca/bpk/news_events/events/researchday2014.html

Senior A Urin, Senior BUBEN

BPK Research Day Organizing Committee

AWARDS

Congratulations to DONALD G HEDGES, MD, who was awarded the Canadian Academy of Sport and Exercise Medicine (CASEM) Community Sport Medicine Physician of the Year for 2013.

The CASEM is an organization of physicians committed to excellence in the practice of medicine as it applies to all aspects of physical activity. Their Mission statement is: “To forge a strong collective voice for sport and exercise medicine, to be a leader in advancing the art and science of sport exercise and medicine, including health promotion and disease prevention, for the benefit of all Canadians.” http://casem-acmse.org/about-casem/community-sport-medicine-physician-of-the-year-award/

Dr. Hedges has been Team Physician for many sports teams including the Vancouver Whitecaps for 22 years, Rugby Canada, the Vancouver Ravens of the Winter-Spring 2014 Vol 16 No 4 Edition
National Lacrosse League (plus several other lacrosse teams) and currently the Burnaby Lake Rugby Club. Since 1998 he has been Team Physician for Team Canada Lacrosse in both field and indoor lacrosse including at the World Championships. In October 2011 he was inducted in the supporters’ category into the Canadian Lacrosse Hall of Fame.

For those of you who are not familiar with Dr. Hedges, he has been part of the former School of Kinesiology since 1984 as Assistant Professor and Medical Director of the Environmental Physiology Unit. He has also taught (and continues to teach) KIN (BPK) 241 since that time. He started his General Practice in 1984, going on to specialize in Addiction & Sports Medicine since 1990.

Dr. Hedges continues to teach BPK 241: Sports Injuries Prevention and Rehabilitation: Includes delineation of the role of the sports therapist and will study the structural and functional characteristics of the body with regard to the prevention of injury in sport. A first aid approach to athletic injuries will be developed with practical experience in routine treatments.

Congratulations to Colin Peters (P Ruben, Supervisor) who received an NSERC Alexander Graham Bell Canada Graduate (Doctoral) Scholarship for 3 years at $35,000 per year.

Congratulations to Christina Hull (T Claydon, Supervisor) who also received an NSERC Alexander Graham Bell Canada Graduate (Doctoral) Scholarship for 3 years at $35,000 per year.

The Scholarship link for both the above is: http://www.nserc-crsng.gc.ca/students-etudiants/pg-cs/bellandpostgrad-bellessuperieures_eng.asp

Congratulations to Rouzbeh Gihadry-Tavi (D. Poburko, Supervisor) who received the BPK Graduate Award for Excellence worth $3,000, intended to recruit outstanding BPK undergraduates into the BPK Graduate program.

Congratulations to Taylor Dick (J Wakeling, Supervisor) who has received the Journal of Experimental Biology Travelling Fellowship in the amount of $6,000 to travel to the University of Queensland in Brisbane, Australia. She will be working on a project that is focused on determining muscle architecture and morphology in Australian Varanid Lizards. She plans to travel to the Outback to catch the lizards and bring them back to the laboratory for experiments. She hopes to return to Canada with all of her fingers as apparently they like to bite! The web link is: http://jeb.biologists.org/site/misc/fellowships.xhtml


Colin Peters and Peter Ruben contributed a chapter to the book entitled “Introduction to Sodium Channels”

David Jones and Peter Ruben contributed a chapter to the book entitled “Proton Modulation of Cardiac INa: A Potential Arrhythmogenic Trigger.”

Matt White of the LEEP Lab reports that three student presentations were made at the 2014 Okanagan Cardiovascular and Respiratory Symposium at Silver Star, BC, March 20-22, 2014. The conference was hosted by UBC Okanagan:

(1) Assaf Yogev, Amanda Hall, Ollie Jay, and Matthew D White. No effects of normoxic nitrous oxide and hyperthermia on timing during phase I exercise ventilation.

(2) Doria Hsiao and Matthew D White. Skin thermosensitivity changes with aging.


Members of the Cardiovascular Physiology Lab also attended the inaugural Okanagan Cardiovascular and Respiratory Symposium (OKCRS) at the Silver Star Ski Resort. Brett Shaw presented a study entitled, The effect of orthostatic stress type on cardiovascular control. Matthew Lloyd presented his work entitled, Gender differences in vascular responses to carotid baroreflex stimulation.


Defences

Successfully defended:

Mark Snaterse, PhD
Monday, December 16th, 2013
“Research and Development of Algorithms to Accurately Control Overground Speed during Walking and Running”

Examining Committee:
Dr. Damon Poburko, Chair
Dr. Maxwell Donelan, Senior Supervisor
Dr. Stephen Robinovitch, Supervisor
Dr. Arthur Kuo, Dept of Mechanical Engineering, U Michigan, Supervisor
Dr. David C. Clarke, Internal Examiner
Dr. John Bertram, Dept of Cell Biology and Anatomy, U Calgary, External Examiner

Heather More, PhD
Tuesday, December 17th, 2013
“Scaling of Sensorimotor Control in Terrestrial Mammals”

Examining Committee:
Dr. Angela Brooks-Wilson, Chair
Dr. Maxwell Donelan, Senior Supervisor
Dr. James Wakeling, Supervisor
Dr. Peter Ruben, Internal Examiner
Dr. John Bertram, Dept of Cell Biology and Anatomy, U Calgary, External Examiner

CIHR Cafè Scientifique
“Talks with Docs”

On March 26th, 2014, a talk was held to explore ways to entice older adults to start and continue daily physical activity. This was in response to the fact that despite the massive health benefits ascribed to physical activity, the vast majority of older Canadians do not meet national physical activity recommendations. The talk was held at the CBC Studio, Vancouver by (faculty profile link included):

Dr. Dawn Mackey
“Immunizing Against Physical Inactivity: How do we entice seniors to be active?”

http://www.sfu.ca/bpk/faculty_directory/mackey.html

Plan to join the next talk this coming April 16th, 2014. This talk will address how we will manage on a societal and individual basis, and what kinds of preventative measures can be taken now, in response to the fact that many people will have more
than one chronic disease before they die and many people will live 10 to 20 years or more with a chronic disease. The talk will be held as follows:

DR. SCOTT LEAR
“The Increasing Burden of Chronic Diseases”
Wednesday, April 16th, 2014
CBC Studio, Vancouver
7:00 to 8:30 p.m.

Dr. Lear’s faculty profile can be found at: http://www.cohearth.ca/
Visit http://www.sfu.ca/science/outreach-program/cafe_scientifique.html for further information on these informal evening talks.

1ST ANNUAL KIN GAMES 2014

This spring, 12 BPK students set off to McMaster University in Hamilton, ON to represent SFU for the first time ever in the annual “Kinesiology Games”. Beginning in 2001, Kin Games has been held annually in March at a different host university and brings together Kinesiology and Human Kinetic programs from across the country to compete in sports and academics to win the coveted Shoe Trophy.

The student-organized conference was held on March 20-22nd, 2014. SFU started off their rookie debut during opening ceremonies with an amazing dance routine choreographed by our very own DANIEL STILLA. Over 30 schools and 800+ students attended the national event to make this year the largest Kin Games to date.

Pictured: LEANDRA RAMSAY, BRANDON SIBAL, MIKE CHIU, ALEX LUKAC, MARGARET CHANG, ADRIAN FUNG, ADAM CHIN, NATALIE FUJISAWA, STEVEN MCGEE, DANIEL STILLA, HANNA TAYKANDY

“It was like making 800 best friends!” – MIKE CHIU, 2nd year BPK student

“It is so far the best experience of my undergraduate career!” – HANNA TAYKANDY, 2nd year BPK student

In 2015 the conference will be hosted by UBC and we hope that there will be a greater interest for students from SFU to attend this event, as it will be much closer to home. There comes a great amount of pride and school spirit from this event as everyone is excited to represent not only their school, but their Kinesiology program and faculty. For more information about how to get involved, contact Leandra Ramsay at kingames@sfu.ca for details.

Thank you to Dr. GLEN TIBBITS, BPK Chair, and the BPK Department for their support.

LEANDRA RAMSAY

BPK CO-OP NEWS

Careers in BPK 2014
The annual Careers in BPK event was held on January 21st, 2014. The event was a huge success and was comprised of three components:
• Lab Tours
• Exhibitors
• and Speaker Sessions.

Lab Tours:
Students toured through three laboratories:
• Environmental Physiology Unit
• Molecular Cardiac Physiology Group Lab
• Neuromuscular Mechanics Lab

Thank you to TOM CLAYDON, JAMES WAKELING, SHERRI FERGUSON, STU SIMMS, TAYLOR DICK, AVLEEN RANDHWA and OLIE BLAKE for their help with the lab tours. Feedback from the students was that the lab tours were interesting and engaging.

Exhibitors:
This year was our largest ever for exhibitor participation. Employers, Professional Associations and other professionals, both on and off campus, interacted with students. Exhibitors included:

SFU Exhibitors:
• BPK Academic Advising
• BPK Ergonomics
• BPK Graduate Studies
• BPK Student Association
• SFU Physiotherapy
• SFU Recreation
• SFU Career Services

Off Campus Exhibitors:
• BC Association of Kinesiologists (BCAK)
• BC Recreation & Parks Association (BCRPA)
• Boucher Institute of Naturopathic Medicine
• Cleveland Chiropractic College
• Innovative Fitness
• Kintec
• NSTEP - Eat Walk Live
• Palmer College of Chiropractic Medicine
• University of Western States
• Vancouver Police Department
• WorkSafeBC
• Zajac Ranch for Children

Guest Speakers:
There were two break-out sessions with two concurrent speakers for each session. Speakers represented the following career areas;
• Research/Graduate studies
• Physiotherapy
• Occupational Therapy
• Medicine
• Chiropractics.

The students enjoyed hearing from and speaking with the following guest speakers who spoke about their respective career areas and career paths:
• Physiotherapist, KAREN BHARTU, SFU BSc Kin co-op
• Occupational Therapist, WENDY LAM
• Occupational Therapy Student, SARAH CHOW, SFU BSc Kin (Hons)

Professional Associations and other professionals, both on and off campus, interacted with students. Exhibitors included:

SFU Exhibitors:
• BPK Academic Advising
• BPK Ergonomics
• BPK Graduate Studies
• BPK Student Association
• SFU Physiotherapy
• SFU Recreation
• SFU Career Services

Off Campus Exhibitors:
• BC Association of Kinesiologists (BCAK)
• BC Recreation & Parks Association (BCRPA)
• Boucher Institute of Naturopathic Medicine
• Cleveland Chiropractic College
• Innovative Fitness
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• NSTEP - Eat Walk Live
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Guest Speakers:
There were two break-out sessions with two concurrent speakers for each session. Speakers represented the following career areas;
• Research/Graduate studies
• Physiotherapy
• Occupational Therapy
• Medicine
• Chiropractics.
BPK Year End Party

On Wednesday, April 2nd, 2014 the BPKSA hosted the annual BPK Year End Party at Club Ilia to celebrate the end of another academic year. The evening was filled with delicious food, laughs and good times by all. Many of the laughs were provided by our very own Richard Ward who once again wrote a hilarious muse article for the evening.

Every year we host this event in an attempt to bring all members of the department including staff, faculty, graduate and undergrad students under one roof to enjoy a meal together and celebrate the year’s accomplishments. This event, more than any other hosted by the BPKSA, aims to build a sense of community and dialogue between all members of the department. It also provides undergrad students the opportunity to interact with faculty which ultimately could inspire more participation in the department from the students.

The BPKSA would like to thank everyone who attended the event for making it the success that it was. The BPKSA also thanks Cheri Fiedler and Darleen Bemister for their help in organizing this event. We also thank the staff at Club Ilia for providing such excellent service and a delicious meal.

We hope to see you there next year!

Steven McGee
BPKSA President