



CSB/SCB NEWSLETTER

June 2013

TABLE OF CONTENTS

President's Message	2
Communications Officer's Message	5
Membership	6
Student Report	7
Thesis Corner/Research News	8
Upcoming Conferences/Meetings	9
CSB Conference 2012 Update	10
Executive	11

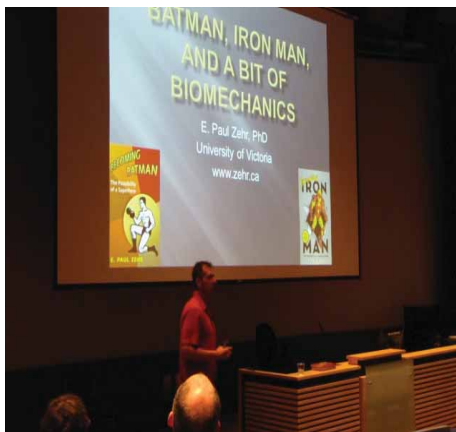
PRESIDENT'S MESSAGE

Steve Robinovitch, Ph.D.



Greetings CSB members! I'm honoured and privileged to have been elected CSB President for the period January 2013 through December 2014, and to have the opportunity to work with our stellar Executive Board in moving the Society forward.

I had the pleasure of seeing many new and familiar faces, and taking in the excellent scientific presentations, last June during our 17th Biennial Meeting at SFU. Considering the biomechanics of Batman and Iron Man was clearly a lot of fun.



What struck me most, however, was the high quality of our student presentations. Clearly, the quality of training and research in biomechanics in Canada is stronger than ever, and is attracting and producing exceptionally capable students.

During the conference, we held a workshop on funding of biomechanics research in Canada, where we heard from Prof. Tom Oxland on the Canadian Institutes of Health Research (CIHR), and from Prof. Tony Hodgson on the Natural Science and Engineering Research Council (NSERC).

At the risk of further quips from Peter Kier (on the low-stress nature of this topic), I wanted to use this opportunity to summarize some of Tom's comments regarding CIHR, and add some of my own thoughts based on my experience as a member of the Institute Advisory Board for CIHR's Institute of Musculoskeletal Health and Arthritis (IMHA). I'll focus on funding of investigator-initiated research, and hope to address student awards in a future newsletter.

CIHR provides about \$1B per year in grants and awards to support health research in Canada. About 70% goes towards funding the "Open Operating Grant Competition" (OOGC), which has two annual application deadlines - March 15 and September 15. The remaining 30% of CIHR's grants budget is directed towards programmatic funding. This has typically included network grants, team grants, and catalyst grants addressing the strategic priorities of one or more Institutes.

CIHR relies on peer review committees to judge the quality of proposals. Currently, most biomechanics applications in the OOGC go to either the Movement and Exercise (MOV) peer review committee, or the Biomedical Engineering (BME) committee. MOV deals mostly with ergonomics, kinesiology, and neurophysiology, while BME deals with tissue engineering, device development, and orthopaedics. Network grants, team grants, and catalyst grants have their own peer review committees. Getting funded at CIHR is not easy - on average, they currently fund about the top 17% of applications (most of which have gone through at least one revision). So perseverance and careful revision of applications is key.

Tom talked about the general determinants of success in peer review, which are essential to consider in

developing an application to CIHR. These include a good idea (that is both innovative and clinically important), a strong team (with a track record of publications and pilot data supporting the application), and an appropriate scope (that accomplishes one or two important milestones). Two additional ingredients of increasing importance to successful applications are what CIHR defines as “integrated knowledge translation (KT)” and “cross-pillar” research. Integrated KT refers to the involvement of end-users (e.g., care providers, patients, patient groups, and industry) in both defining and carrying out the research, as well as disseminating the results. Cross-pillar research refers to the four general themes (or research “pillars”) that CIHR seeks to grow: biomedical, clinical, health systems and services, and population and public health. Applications that encompass two or more pillars reflect an interdisciplinary approach and/or synergistic strategies to advancing knowledge. While most biomechanics applications focus on biomedical or clinical science, successful applications are increasingly relevant to (and have co-investigators or end users involved from) health systems and services, or population and public health.

Tom also talked about some of big changes happening at CIHR. These include major revisions to (a) the OOGC program, (b) peer review, and (c) programmatic funding. The intended goals of these changes are to improve CIHR’s ability to ensure that good research gets funded, reduce applicant and reviewer burden, and promote more effective translation of research into health improvements for Canadians. I’ve summarized some the key details below. However, many are still emerging, and I encourage you to review the CIHR website for further information (<http://www.cihr-irsc.gc.ca>).

Starting in 2014, the current OOGC program will be replaced by two suites of grants: a “Project Scheme” and a “Foundation Scheme”. Project grants will be similar to current OOGC grants (i.e., the intent will be to fund good ideas), and will provide funding for up to 5 years. Foundation grants will support a program of research for established leaders and promising young investigators, for up to 7 years (or 5 years for new investigators). These will typically involve larger dollar amounts. Foundation grant leaders will not be able to apply for Project grants as a principal investigators, but can be co-investigators on Project grant applications.

Also starting in 2014, the peer review system will undergo major changes. Traditional peer review committees will be replaced by a College of Reviewers and interdisciplinary committees. In the first stage of evaluation, at least 5 reviewers (matched in expertise to the topic of the proposal) will submit reviews, and then participate in online discussions in an attempt to arrive at consensus. In the second stage, an interdisciplinary committee will meet face-to-face to focus on applications with average scores in the “grey zone.”

If that wasn’t enough, changes are also occurring to programmatic funding. While individual Institutes should continue to fund strategic initiatives (such as the recent Teams Grants in Bone Health), funds are being increasingly dedicated to emerging CIHR-wide signature initiatives (SI’s). Several of these have relevance to the biomechanics community.

The largest SI is the Strategy for Patient-Oriented Research (SPOR). SPOR is at the heart of CIHR’s growing mission to translate research results to improve the health of Canadians. While clinical trials will be a major focus, SPOR will also support the development, implementation, and assessment of improvements to clinical practice in biomechanics-relevant areas such as physiotherapy, surgery, and injury and disease prevention. Applications must demonstrate strong ties to clinical and health services, industry, and other stakeholders (which each of us should be thinking about developing!).

Another emerging SI is Inflammation in Chronic Disease - an area clearly relevant to arthritis, occupational or repetitive strain disorders, and periodontal disease. An SI in the early planning stages will focus on Work and Health, and should be widely applicable to ergonomics researchers. Two additional SI's that may be of relevance to us are Personalized Medicine (which includes epigenetics), and Pathways to Health Equity for Aboriginal Peoples.

While adapting to these changes will be challenging, hopefully they will accomplish CIHR's intended goals. I would be happy to further discuss my (limited) knowledge these issues via email (stever@sfu.ca), and work to convey the thoughts of the biomechanics community to CIHR.

Best regards,

Steve Robinovitch, Ph.D.

President, CSB

COMMUNICATIONS REPORT

Sylvain Grenier, PhD
CSB communications officer



Hello CSB members. As the new Communications Officer I would first like to thank you for this opportunity to assist the society and to promote biomechanics in Canada. Second, I would like to thank Dr. Stephen Perry for his years of service to the society. His work and organization have left me with a very manageable transition. This transition is partly why the news letter is slightly delayed. As we move into summer I hope everyone will be able to take advantage of the weather.

There are several new things to watch for during my term of service. We will be working on implementing an online voting system, providing online access to CSB conference archives, and bringing a french version of the website online. These things are already in progress and some are partially accessible already. For example once you have logged into the website a new tab appears on the left hand side 'conference abstract'.



By clicking on this tab you can now access archived pdf files of all of the past conference proceedings that the CSB had previously held in paper form. If you have any thesis defence announcements or other research news please let me know and I can post it. Also if you are aware of any upcoming conferences, please let me know and I will add them to the website.

Should you have any other suggestions and ideas for better communications or website functionality, please feel free to send them my way (sgrenier@laurentian.ca). Our goal is to provide the best service to the membership.

Thanks to the University of Ottawa for hosting our current website.

The Society webpage address is: www.csb-scb.com

Sylvain Grenier, Communications Officer and Webpage Editor

CSB/SCB Membership

Andrea Clark
CSB member affaires and secretariat



Membership information as of May 7th 2013

Student s	163
Regular	97
Career	8
Fellows	3
Total	271

Countries represented by membership as of May 7th 2013

Canada	246
US	22
Australia	1
Brazil	1
Italy	1

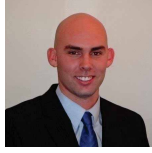
I would like to take this opportunity to encourage all of our membership to take advantage of our new online membership payment capability at <http://membership.csb-scb.com/> You will have the option to pay for a single year or two years of membership, and if you did not pay for both 2012 and 2011 you will be asked to pay one year of arrears (we are making sure people pay membership for both years between conferences). The default 'Pay using PayPal' option is permanently selected and will take you to a new webpage that will allow you to pay using any normal credit card. Cost is the same - \$50/year for a regular member and \$20/year for student membership. I have paid for 2013.... so why haven't you??? ;0)

Also, the Canadian Society for Biomechanics was incorporated on December 30th, 1982 by letters patent. Each year we are asked to renew this status with Industry Canada by filling out a simple paper form and paying a small processing fee. Industry Canada are changing their processes under the new Canada Not-for-Profit Corporations Act which should streamline their processes even more. The CSB Exec are moving forward on making the transition to the new system which needs to be completed by October 17, 2014. Step four of five in this transition will require that our membership (you ;0) vote and give your approval (or otherwise) of new by-laws that the Exec under the guidance of a lawyer will draft.... watch this space ;0)

Thank you as always for keeping your membership up to date,

Andrea Clark, Member Affairs and Secretariat

Student Report



Ed Cambridge



Scott Brandon

CSB Students on Linked-In!

The Student Representatives are very excited to announce the launch of an official CSB-Student Linked-In account!!! After careful consideration and widespread support from the CSB executive, we have been granted the privilege of hosting the society's first social media outlet. The page promises to provide CSB student members with the opportunity to connect, discuss, or even debate in a non-threatening peer environment. Students represent a high percentage of the membership of CSB, and with such a large geography between members, we see this as a great avenue for us to interact between our biannual conferences. Please note that all official communication from the society will still arrive via email, and that only active student members will be accepted into the group. More to come on this, but check us out on Linked-In!

Please email us if you have suggestions to improve resources for student members.

Ed Cambridge and Scott Brandon, Student Representatives

THESIS CORNER (<http://www.health.uottawa.ca/biomech/csb/students.htm>)

RESEARCH NEWS (<http://www.health.uottawa.ca/biomech/csb/students.htm>)

The 'Thesis Corner' and the 'Research News' sections are two areas that we will be continuing in our biannual newsletters. Please submit the titles of recently completed master's and doctoral theses. The thesis corner will only contain the title, name, year and institution along with a web link to the abstract on the CSB/SCB website (if desired). I encourage everyone to submit their own or their student's recently completed thesis abstracts and any Research News associated with any Canadian Biomechanics Lab to sgrenier@laurentian.ca.

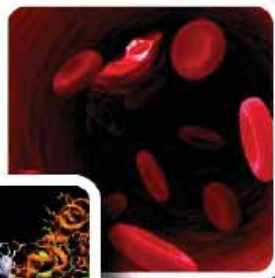
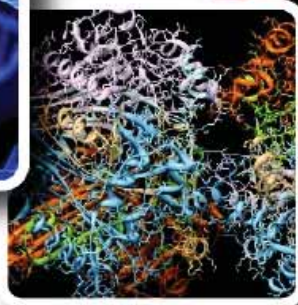
UPCOMING CONFERENCES

(an updated list with links can be found at www.csb-scb.com)

2013 CSB conference update



7th WORLD CONGRESS OF BIOMECHANICS



.....

The World Congress of Biomechanics is an international meeting held once every four years, rotating among Europe, Asia and the Americas. This, the 7th WCB, will once again bring together bioengineers, life scientists and medical researchers from around the world for 5 days of in-depth discussions and presentations. Vendor exhibitions will highlight the latest technologies, publications, and medical devices.

Plan to join us in Boston, just following the US Independence Day festivities on July 4th.

www.wcb2014.com

FEATURING A STUDENT PAPER COMPETITION,
SPONSORED BY ASME BIOENGINEERING DIVISION

.....

.....

IN CONJUNCTION WITH:

American Society of Biomechanics
American Society of Mechanical Engineers
Canadian Society for Biomechanics
European Society of Biomechanics
Global Enterprise for MicroMechanics
and Molecular Medicine
US National Committee of Biomechanics
World Council of Biomechanics

JULY 6-11 2014

John B. Hynes Veterans
Memorial Convention Center
Boston, MA

.....

UPDATE ON 2012-2013 CONFERENCES

Ontario Biomechanics Conference 2013

The 10th annual Ontario Biomechanics Conference was held on March 15-17, 2013. In keeping with tradition, the event was held at the Kempenfelt Conference Centre on the shores of Lake Simcoe, 45 minutes north of Toronto. There were 143 attendees representing 15 different institutions.

Registrants comprised 26 faculty members and 114 trainees (including 9 Undergraduate, 65 Masters, 37 Doctoral, and 3 Postdoctoral). The program included 92 presentations, with 48 in oral format and 44 in poster format. Dr. Peter Keir provided an informative and entertaining Keynote lecture entitled "Mechanisms of Musculoskeletal Disorders - One Researcher's Timeline". The conference chairs would like to thank everyone who contributed to the success of the event, in addition the CSB/SCB for their generous support.

EXECUTIVE MEMBERS / MEMBRES D'EXÉCUTIF CSB/SCB 2012-2013

PRESIDENT / PRÉSIDENT



Dr. Stephen Robinovitch
Biomedical Physiology
& Kinesiology
8888 University Drive
Burnaby, B.C. V5A 1S6
Tel: +1 778 782 3566
Fax: +1 778 782 3040
Email: stever@sfu.ca

SECRETARY-TREASURER / SECRÉTAIRE-TRÉSORIER



Dr. Salvatore Federico
Dept of Mechanical &
Manufacturing Engineering
The University of Calgary
2500 University Drive NW
Calgary, Alberta, T2N 1N4
Tel: +1 403 220 5790
Fax: +1 403 282 8406
Email: salvatore.federico@ucalgary.ca

MEMBER AFFAIRS AND SECRETARIAT / SECRÉTAIRE ET RESSOURCES HUMAINES



Dr. Andrea Clark
Faculty of Kinesiology
University of Calgary
2500 University Drive NW
Calgary, AB, T2N 1N4, Canada
Tel: +1 403 220 3184
Email: alclark@kin.ucalgary.ca

CONFERENCE CHAIR / RESPONSABLE DES CONFÉRENCES



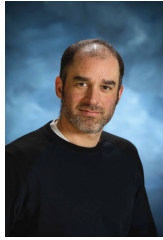
Dr. Clark Dickerson
Department of Kinesiology
University of Waterloo
200 University Avenue West
Waterloo, Ontario N2L 3G1
Tel: +1 519 888 4567 x37844
Fax: +1 519 746 6776
Email: cdickers@uwaterloo.ca

PAST CONFERENCE CHAIR / RESPONSABLE DES CONFÉRENCES



Dr. Max Donelon
Biomedical Physiology & Kinesiology
8888 University Drive
Burnaby, B.C. V5A 1S6
Tel: +1 778 782 7100
Email: max_donelan@sfu.ca

COMMUNICATIONS / COMMUNICATIONS ET PAGE WEBCOMMUNICATIONS ET PAGE WEB



Dr. Sylvain Grenier
School of Human Kinetics
Laurentian University
935 Ramsey Lake Road
Sudbury, ON, P3E 2C6
Tel: +1 705 675 1151 x1095
Fax: +1 705 675 4845
Email: sgrenier@laurentian.ca

MEMBERS-AT-LARGE / AUTRES MEMBRES



Dr. Andrew Laing
Department of Kinesiology
University of Waterloo
200 University Avenue West
Waterloo, Ontario N2L 3G1
Tel: +1 519 888 4567 x38947
Fax: +1 519 746 6776
E-mail: actlaing@uwaterloo.ca



Dr. Cyril Duclos
School of rehabilitation
Université de Montréal
C.P. 6128, succursale Centre-ville
Montréal, QC, Canada, H3C 3J7
Tel: +1-514-343 6111 x26381
Fax: +1-514-343-6929
Email: cyril.duclos@umontreal.ca

PAST PRESIDENT / PRÉSIDENT PRÉCÉDANT



Dr. David Andrews
Department of Kinesiology
University of Windsor
401 Sunset Avenue
Windsor, Ontario N9B 3P4
Tel: +1 519 253 3000 x2433
Email: dandrews@uwindsor.ca

STUDENT REPRESENTATIVES / REPRÉSENTANTE ÉTUDIANTE



Mr. Scott Brandon
Queen's University
Kingston On
Email: brandon@me.queensu.ca



Dr. Ed Cambridge
Department of Kinesiology
University of Waterloo
200 University Ave. West
Waterloo, ON, N2L 3G1
Email: edward.cambridge@uwaterloo.ca

CSB/SCB General Meeting

Simon Fraser University, Burnaby, BC

2012-06-08 (Fri)

Meeting Minutes

1. The meeting started on time at 11:45.
2. Call Meeting to Order [UNANIMOUS]
3. Approval of the Agenda circulated 2012-06-01 [UNANIMOUS]
4. Approval of Minutes of 2010 CSB/SCB Biennial Meeting held at Queen's University, circulated in the newsletters of Fall 2010 and Spring 2012 [UNANIMOUS]



5. President's Report (Andrews)

- Thanks to the Organizing Committee of SFU, CSB Executive, Membership
- State of the CSB: the Society is doing well financially; we moved from the biennial to the annual membership system, and to an online system, the French website is still under construction, but on the way (next month); the website is going to be updated with a system for suggestions/comments available to all members
- Commemoration of David Winter

6. CSB Executive Committee Elections (Andrews)

- President: Steve Robinovitch (Simon Fraser U.) [elected]
- Past-President: Dave Andrews (U. Windsor) [by default]
- Conference Chair: Clark Dickerson (U. Waterloo) [confirmed]
- Past-Conference Chair: Max Donelan (Simon Fraser U.) [by default]
- Member Affairs/Secretariat: Andrea Clark (U. Calgary) [confirmed]
- Secretary/Treasurer: Salvatore Federico (U. Calgary) [confirmed]

- Communications Officer: Sylvain Grenier (Laurentian U.) [confirmed]
- Members at large: Cyril Duclos (U. Montréal) [elected]
Andrew Laing (U. Waterloo) [elected]

For the election of the members at large, the candidates gave a little speech about their contribution to the Society and to Biomechanics in general, and their expertise; non elected candidate was Graham Caldwell (U. Mass.-Amh.)

- Student Representatives: Scott Brandon [elected]
Ed Cambridge [elected]
Non elected candidates were Brian Nairn and Evelyn Anaka

7. Reports

- 2012 Conference Chair (Robinovitch)

Demographics of the conference were given by Max yesterday (Thu 7 Jun) morning; 220 registrants coming in; final number to be verified; 270 presentations (there were participants giving more than one presentation)

- Member Affairs/Secretariat (Clark)

Membership: Thanks to Jennifer Durkin for the help in the transition from paper to electronic membership management;

Completed Tasks

- Set up New Bank account (no fees not for profit dual signing authority with Salvatore)
- Set up PayPal account – necessary for online membership payments
- Set up online membership and communications website – Openwire: thanks to all for the patience and feedback on the new system
- Linked Paypal to online membership website to enable online membership payments – went live Jan 2012

In-Progress Tasks

- Electronically archiving old proceedings – and making available on the website

Active Membership as of 2012-05-29: 8 Career Members, 3 Fellows, 94 Regular, 152 Student, for a total of 257

Financial: The actual balance will be lower than that presented (41,625.16 CAD), as the student conference grants are not indicated here

- Communications Officer (Perry)

Thanks to Peter Kier for helping getting started.

The website will allow members to communicate directly, while avoiding a “spam” type of environment

There will be a “thesis corner”: abstracts and titles of theses are welcome all year long

- Student Representatives (Anaka, Gooyers)
- Thanks to the local students representative for organising the workshop
- Proposed the use of LinkedIn to improve and facilitate communication among members

8. Awards (Andrews)

- CSB Career Award (Joan Stevenson)
- Banquet: CSB Fellow (Wayne Albert), NDI, President’s
- Student Conference Travel Grants: President emphasised that the Executive decided to continue the policy of using the Society’s money to maximise support to the students
- Student Travel Awards [students gave brief reports]

Tim Burkhart (2010) [present: gave report]

Nicholas Ali (2011)

9. Regional Biomechanics Conferences

- Atlantic Biomechanics Conference: Was very successful, 1.5 day event, relatively small number facilitated interaction among participants
- Ontario Biomechanics Conference: 140 attendees, 75 to 85 student presentations
- Western Biomechanics Conference (Herzog): coincided with the 2011 Alberta BME; 196 participants; 2 guest speakers; best poster award; innovative technology award; similar numbers in previous years

10. 2014 CSB Conference (Clark Dickerson, U. Waterloo)

- will coincide with NACOB 2014, WCB 2014
- Hynes Convention Center, Boston, USA, 6-11 July 2014
- Participating Groups:
 - Canadian Society for Biomechanics

- World Council of Biomechanics
- American Society of Mechanical Engineers
- European Society of Biomechanics
- US National Committee on Biomechanics
- Global Enterprise for MicroMechanics and Molecular Medicine
- American Society of Biomechanics

11. Other Business

- Suggestion by [I could not take a note of her name...]: the new executive could be elected through electronic elections to save time during the meeting, and there is more “search” for candidates

President replied that we were not in time to implement that for this year, but it is on the way

- Question: is there a formal nomination committee?

President replied no...

- Herzog: 4-6 years ago we said that there would be no manuscript requirement for the awards, because only a few people applied; furthermore, since there are many undergraduate participants, is the executive considering undergraduate student awards?

President replied that the executive agrees on both points

- A suggestion was made for input to the funding agencies from the CSB, specific to biomechanics

12. Adjournment

Executive at the time of this meeting:

President

Dr. David Andrews
Department of Kinesiology
University of Windsor
Windsor, ON, N9B 3P4

Tel: +1- 519-253-3000 ext. 2433
Fax: +1-519-973-7056
Email: dandrews@uwindsor.ca

Secretary/Treasurer

Dr. Salvatore Federico
Dept of Mechanical and Manufacturing
Engineering
The University of Calgary
2500 University Drive NW
Calgary, Alberta, T2N 1N4, Canada

Tel: +1-403-220-5790
Fax: +1-403-282-8406

email: salvatore.federico@ucalgary.ca

Conference Chair **Dr. Stephen Robinovitch**
Biomedical Physiology & Kinesiology Tel: +1-778-782-3566
Simon Fraser University
Burnaby, B.C. V5A 1S6 Email: stever@sfu.ca

Past President **Dr. Peter Keir**
Department of Kinesiology Tel: +1-905-525-9140 ext. 23543
McMaster University Fax: +1-905-523-6011
Hamilton, ON, L8S 4L8 Email: pjkeir@mcmaster.ca

Past Conference Chair **Dr. Pat Costigan**
School of Kinesiology and Health Studies Tel: + 1-613 533-6000 ext 79037
Queen's University Email: pat.costigan@queensu.ca
Kingston, ON K7L 3N6

Secretariat and Member Affairs **Dr. Andrea Clark**
Faculty of Kinesiology Tel: +1-403-220-3184
University of Calgary Email: alclark@kin.ucalgary.ca
2500 University Drive NW
Calgary, AB, T2N 1N4, Canada

Communications Officer and Webpage **Dr. Stephen Perry**
Kinesiology & Physical Education Tel: +1-519-884-0710 ext.4215
Wilfrid Laurier University Fax: +1-519-747-4594
75 University Avenue West Email: sperry@wlu.ca
Waterloo, ON, N2L 3C5

Members at Large **Dr. Graham E. Caldwell**
Department of Kinesiology Tel: 1-413-545-0017
School of Public Health/Health Sci FAX: 1-413-545-2906
Univ of Massachusetts Amherst E-mail: gc@kin.umass.edu
Totman Building, Room 105
30 Eastman Lane, Amherst, MA 01003

Dr. Cyril Duclos
School of rehabilitation Tel: 514 343 6111, ext 26381
Université de Montréal Fax: 514-343-6929
C.P. 6128, succursale Centre-ville Email: cyril.duclos@umontreal.ca
Montréal, QC, Canada, H3C 3J7

Student Members **Mr. Chad Gooyers**
Department of Kinesiology Email: cgooyers@uwaterloo.ca
University of Waterloo
200 University Ave. West
Waterloo, ON, N2L 3G1

Ms. Evelyn Anaka
School of Kinesiology Tel +1-734-660-5226
University of Michigan Email: evana@umich.edu
401 Washtenaw Av
Ann Arbor, MI, USA 48109