



# CSB/SCB NEWSLETTER

December 2008

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## PRESIDENT'S MESSAGE

As a new Executive takes over the reigns of the Canadian Society for Biomechanics, I look forward to deepening Society ties across Canada and beyond. While most of the world is in financial turmoil, the previous Executive boards, most recently led by Dr. Jack Callaghan, have left us in a strong financial position from which we can launch new initiatives. Over the next two years, I would like to improve the benefits of being a society member and engage more of the membership across Canada. We are taking strides to continue the usefulness of the website and develop online membership service to include up to date payment and renewal options. The student survey indicated a need to update components of the website to include guidance in both work and academic opportunities. Over the past few years, a recurring suggestion has been to create a peer reviewed journal that supports the needs of the Society and highlight the quality of biomechanics research in Canada. I would like to thank Dr. Dave Andrews for his efforts in making the NACOB 2008 conference in Ann Arbor a huge success and look forward to the 20<sup>th</sup> biennial conference, hosted by Dr. Joan Stevenson and the biomechanics group at Queen's University (August 16-19, 2010).

Over the past several years, successful regional meetings have been held in the West (WCB, Western Canadian Biomechanics conference) and in Ontario (OBC, Ontario Biomechanics Conference). These regional meetings are encouraged and supported by the Society. Atlantic Canada is looking for their first regional meeting this spring. These are important meetings for our Society as they provide a local and more attainable conference for many individuals while promoting the work of our fine students.

Canada has always been at the forefront of the biomechanics world and I would like to continue that by engaging the membership. Please forward your ideas for new initiatives to myself or anyone on the executive. I would also like to hear from individuals who are looking to play a role in the Society and give us representation from coast to coast.

I wish everyone the best in research and personal endeavours in 2009 and look forward to interacting with all facets of the Society over the next two years.

*Peter Keir, President*

## COMMUNICATIONS REPORT

As the new executive takes the reigns of the CSB, I would like to thank the efforts of Peter Keir (now president of the CSB) as communications officer. He is to be thanked for both updating the CSB website and the newsletter. Both of these activities are needed to keep the information flowing for CSB members. Additionally, thanks to the people behind the webpage, in particular, Gord Robertson and Mike Holmes.

As a short introduction, I am Stephen Perry (Steve is fine). I have been involved in biomechanics since the early 90's. My initial work has focused upon running, impact loading, foot pronation and lower extremity motion under the supervision of Mario Lafortune (U of Guelph). My current work, that stemmed from my PhD with Brian Maki (U of Toronto), focuses on the neuromechanical aspects of the foot and footwear in the control of dynamic balance. I am currently an associate professor in the Department of Kinesiology & Physical Education at Wilfrid Laurier University.

We are always looking for new ideas, information and feedback on the site (especially broken links). We are also looking into improving the French side of the website. Please contact me directly with news stories, interest or information ([sperry@wlu.ca](mailto:sperry@wlu.ca)).

I hope that we can provide all of the members with up-to-date information about the various aspects of the Society and biomechanics in general over the next few years.

Thanks to the University of Ottawa for hosting our website. The Society webpage address is:

[www.csb-scb.com](http://www.csb-scb.com)

*Stephen Perry, Communications and Webpage Editor*

## NACOB 2008 REPORT

From all accounts, the 4<sup>th</sup> North American Congress on Biomechanics (NACOB 2008) held in Ann Arbor, Michigan, from August 5<sup>th</sup> to August 9<sup>th</sup>, was a huge success. A joint meeting of the American Society of Biomechanics (ASB) and the Canadian Society for Biomechanics (CSB), NACOB 2008 welcomed 832 registrants from 19 different countries. Almost half of the registrants were students.

Nearly 600 abstracts were submitted, providing the basis for a strong and exciting scientific program comprised of 4 keynote addresses, 4 symposia (including one in honour of the late Aftab Patla), 237 oral presentations and 330 posters (search abstracts at [www.nacob2008.org](http://www.nacob2008.org)). In addition, 22 preconference tours at University of Michigan laboratories and 6 tutorials gave registrants extensive options for professional development. The student mentorship session and women in biomechanics luncheon returned after much acclaim at CSB 2006, and provided additional opportunities for networking and interacting with colleagues. A very successful (150 attendees) 1 day satellite symposium on Head Injuries and Concussion was put on by the University of Michigan's Bone & Joint Injury Prevention Centre the day before the Congress.

The Michigan League building provided excellent exposure for 24 corporate vendors who exhibited their hardware and software and were available for consultation on the latest technology for biomechanics research. Participants enjoyed a strolling banquet at the Henry Ford Museum, a 12 acre museum featuring exhibits from the industrial revolution. Many attendees were heard exclaiming that the museum offered a wonderful mix of intellectual, historical and gustatory interest and a much appreciated change of pace. A full complement of awards offered by the CSB and ASB, including ASB's Young Scientist and CSB's NDI New Investigator awards (winners Brandon Hisey, Tim Leonard, Venus Joumaa), and ASB's Borelli, Hay, Clinical Biomechanics (winner Cheryl Hubley-Kozey) and Journal of Biomechanics awards, and CSB's Career award (recipients Ron Zernicke, Aftab Patla), were presented during several sessions throughout the Congress. Closing ceremonies included the traditional presentation of a gift to outgoing CSB President Jack Callaghan, and a fun-filled presentation of the lighter side of NACOB by CSB's incoming President Peter Keir.

The meeting would not have been possible without the generous financial support in the way of grants from the NIH (to support women and minority students), Ford Motor Co., Liberty Mutual Insurance Co., Delsys, Elsevier, The Mathworks, and Human Kinetics, as well as funds from a number of units at the University of Michigan and the University of Windsor. In addition, generous support from the CSB in the form of student conference travel awards helped over 30 students reduce the costs associated with coming to the Congress.

Overall, the Congress was a full and stimulating meeting and one that I won't soon forget. I want to personally thank all of the people that agreed to review papers, chair sessions and judge awards. Without your contributions, NACOB 2008 would not have been possible. A special thanks needs to be extended to Robyn Bertram, Tim Burkhart and Paula van Wyk for their considerable help with organizing the poster and podium sessions. And finally, my sincerest thanks to Richard Hughes and James Ashton-Miller for a wonderful and rewarding experience across the board.

*David Andrews, NACOB Program Co-Chair*

## CSB/SCB Membership

Membership as of December 2008. We are looking into a more efficient renewal process. A membership form is provided in this newsletter or can be found on the CSB/SCB webpage. You can also safely pay dues online at:

<http://www.health.uottawa.ca/biomech/csb/membership.htm>.

Regular members	70
Student members	91
CSB Fellows	2
Lifetime members	9
<b>Total</b>	<b>172</b>

*Jennifer Durkin, Secretariat*

## Student Report

### Introducing the student representatives ...

#### **Sarah Manske**

I am one of your new CSB student representatives. I am a PhD Candidate in Biomedical Engineering and Kinesiology at the University of Calgary, studying bone adaptation to mechanical load. I obtained my MSc in Experimental Medicine from the University of British Columbia and my BSc in Kinesiology from Simon Fraser University. In the next two years on the executive, I hope to ideas provided by feedback from the recent student survey. Any suggestions for improving the experience of student members would be appreciated.

#### **Evelyn Anaka**

Having completed my undergraduate and master's degree in Kinesiology at Université Laval, Québec City, I am currently at the University of Michigan, Ann Arbor, where I will be pursuing my PhD. I am particularly interested in the control of human locomotion. My past research has focused on the mechanisms of gait initiation, and I am currently studying the use of myoelectric controlled exoskeletons to aide with gait rehabilitation.



**CSB/SCB Biennial General Meeting**  
**University of Michigan**  
**MLB 1400 AUD4**  
**Ann Arbor, Michigan**  
**Thursday, August 7, 2008, 12:15-1:30 p.m**

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1. Meeting was called to order at 12:30 pm
2. **Approval of the Agenda:** Moved by C. Dickerson; Seconded by S.Nadeau; Motion Carried: Unanimously
3. **Approval of Minutes of 2006 CSB/SCB Biennial Meeting (Waterloo):** Moved: W. Albert; Seconded: W. Herzog; Motion Carried: Unanimously
4. **Reports**
  - 4.1 **2008 Conference Chairperson (David Andrews)**
    - 600 papers were submitted for the NACOB conference; 200 podium and 330 poster presentations; 4 symposiums (22 symposium presentations)
    - There was an 8% abstract rejection rate
    - At the time of reporting there were approximately 800 delegates in attendance
  - 4.2 **Financials & Secretariat/Members Affairs (Jen Durkin)**
    - Financial records were presented (attached)
    - Reported that the financial situation in the society has improved over the past several years
    - There was an increase in the student travel grants by \$6,000 starting in 2008
    - The decrease in membership since the last conference will be investigated, but there is speculation that it may be related to the lack of strong financial incentive at the NACOB conference to bundle the membership with conference registration
  - 4.3 **Past-Conference Chairperson (Jack Callaghan)**
    - The 2006 conference in Waterloo was a success and generated sufficient funding that there were no costs to the Society
      - Career and other awards were handled by the conference budget
    - There were 260 delegates with 170 papers presented
  - 4.4 **Communications Officer (Peter Keir)**
    - P. Keir thanked Gord Robertson for his work on maintaining the CSB/SCB website and Mike Holmes (PhD student at McMaster) for his efforts on updating the look and content over the past two years
    - Looking into creating a Canadian biomechanics ListServe to enhance communication among Canadian biomechanists
    - Anyone with ideas for the newsletter are encouraged to forward them to P. Keir

#### 4.5 Student Representatives (S. Fischer and D. Bourne)

- The student representatives indicated that they had three objectives during their term which included:
  - Increase exposure of awards
  - Obtain more feedback from students (development of an opinion survey)
  - Develop a student mentoring session at NACOB
- They are happy to report that they were successful on all three fronts

### 5. Awards

#### 5.1 Student Conference Travel Awards

- \$6000 was allocated for student travel awards specific to the CSB meeting
- The awards were subdivided, with students from Ontario receiving travel awards worth \$150 each due to the reduced costs of travelling to Michigan from Ontario.
- 30 awards in total were granted for the NACOB conference

#### 5.2 Student Awards

- NDI has committed to funding student awards for 5 conference (starting in 2006 in Waterloo and continuing through the 2014 meeting)
- The OPEN category (for researchers up to 6yrs. after Doctoral degree) = \$1000
- Master and Doctoral Category = \$500
  
- There was significant discussion pertaining to the student awards and the lack of student entries. A couple of impediments for students were identified leading to the following motions.
  - a. **MOTION: Remove the need for a paper as a requirement to be eligible for the student award.** Moved by W. Herzog; seconded by G. Robertson; Carried Unanimously
  - b. **MOTION: Remove requirement that the paper not be published to be eligible for the student award.** Moved by W. Herzog; seconded by S. Grenier; Carried unanimously

#### 5.3 Career Awards

- This year the Society was proud to present the Career award to Dr. Ron Zernicke and Dr. Aftab Patla (posthumously)
- W. Herzog praised the Society for resurrecting the Career Award and for honouring Dr. Patla during the NACOB conference
- W. Herzog recommended considering a symposium at the conference for retiring members of the Society

## **6. CSB Fellows**

- This year the Society was proud to award Dr. Stephen Prentice (University of Waterloo and Past President of CSB) the honour of Society Fellow

## **7. Regional Biomechanics Conferences**

### **7.1 Ontario Biomechanics Conference (OBC)**

- The OBC regional conference is a student-centred conference with all presentations, except the keynote delivered by students
- It is located in the same venue yearly with different host institutions. This year the University of Guelph played host and McMaster University will host in 2009
- CSB provides \$500 of funding in support of the conference
- membership status and financial statement (year to date) reports were circulated
- M. Oliver (U. Of Guelph) spoke about this year's conference and indicated that there were over 60 presentations and suggested to keep the current format it can not grow any larger

### **7.2 New Initiatives Travel Grants**

- the Executive would encourage other regions of Canadian to establish a conference and would provide \$500 in yearly support
- abstracts from OBC are online on the CSB website

## **8. 2010 CSB.SCB Conference (J. Stevenson)**

- Joan Stevenson provided an overview of Kingston and Queen's University as the hosts for the 2010 conference
- The exact dates have yet to be determined

## **9. Elections for the CSB Executive (J. Callaghan)**

The following are the elected members for the 2008-2010 Executive

President: Peter Keir (McMaster University)

Past-President: Jack Callaghan (U. of Waterloo)

Past Conference Chair: Dave Andrews (U. of Windsor)

Secretariat/Member Affairs: Jen Durkin (U. of Waterloo)

Secretary/Treasurer: Wayne Albert (U. of New Brunswick)

Communications: Steven Perry (Wilfrid Laurier University)

Member-at-Large: Sylvie Nadeau (U. of Montreal)

Member-at-Large: Sylvain Grenier (Laurentian U.)

Student Representative: Sarah Manske (U. of Calgary)

Student Representative: Evelyn Anaka (U. of Laval)

## **10. Other Business**

- a. 2012 CSB/SCB conference will be in British Columbia (S. Robinivich, Conference Chair)
- b. 2014 NACOB is open for bidding

11. The meeting was adjourned at 1:25pm: Moved by Jim Potvin; Seconded by S. Nadeau; Carried Unanimously



## UPCOMING CONFERENCES

(an updated list with links can be found at [www.csb-scb.com](http://www.csb-scb.com))

### 2009

**Ontario Biomechanics Conference, OBC 2009, March 13-15, Barrie ON**  
Hosted by McMaster University

**XXII Congress of the International Society of Biomechanics, July 5-9, 2009, Cape Town, South Africa.** Abstracts due Feb. 15, 2009 ([www.isb2009.org](http://www.isb2009.org))

**ASB Annual Meeting, Penn State University, August 26-29, 2009**  
Abstracts due April 3, 2009

**IEA 2009, Beijing, China, Aug. 9-14, 2009**

**ACE 2009, Association of Canadian Ergonomists, Quebec City, Sept.14-17, 2009**  
Abstracts due March 1, 2009

**8th Triennial hand & Wrist Symposium, Penn State Oct. 4-6, 2009**

### 2010

**ISEK 2010, International Society of Electrophysiology and Kinesiology, Aalborg, Denmark,**  
June 16-19, 2010

**WCB 2010, 6<sup>th</sup> World Congress on Biomechanics, Singapore, Aug. 1-4, 2010**

**CSB 2010, The 16<sup>th</sup> Biennial Conference of the Canadian Society for Biomechanics, Queen's University, Kingston, ON, Aug. 19-21, 2010**

**PREMUS 2010, Angers, France, Aug. 29 - Sept. 2, 2010**

## EXECUTIVE MEMBERS / MEMBRES D'EXÉCUTIF CSB/SCB 2006-2008

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<b>Secretariat and Member Affairs</b>	<b>Dr. Jennifer Durkin</b> Department of Kinesiology University of Waterloo 200 University Ave., West. Waterloo, ON, N2L 3G1	Tel: +1-519-888-4567 ext. 37535 Fax: +1-519-746-6776 Email: <a href="mailto:durkinjl@healthy.uwaterloo.ca">durkinjl@healthy.uwaterloo.ca</a>
<b>Communications and Webpage</b>	<b>Dr. Stephen Perry</b> Kinesiology & Physical Education Wilfrid Laurier University 75 University Avenue West Waterloo, ON, N2L 3C5	Tel: +1-519-884-0710 ext.4215 Fax: +1-519-747-4594 Email: <a href="mailto:sperry@wlu.ca">sperry@wlu.ca</a>
<b>Members at Large</b>	<b>Dr. Sylvie Nadeau</b> École de réadaptation Université de Montréal C.P. 6128, succursale Centre-ville Montréal, QC, H3C 3J7	Tel: +1-514-343-2253 Fax: +1-514-343-2105 Email: <a href="mailto:sylvie.nadeau@umontreal.ca">sylvie.nadeau@umontreal.ca</a>
	<b>Dr. Sylvain Grenier</b> School of Human Kinetics Laurentian University Sudbury ON P3E 2C6	Tel: +1- 705-675-1151 x1095 Fax: +1-705-675-4845 Email: <a href="mailto:sgrenier@laurentian.ca">sgrenier@laurentian.ca</a>
<b>Student Members</b>	<b>Ms. Sara Manske</b> Biomedical Engineering and Kinesiology University of Calgary 2500 University Drive NW Calgary, AB, T2N 1N4	Email: <a href="mailto:smanske@ucalgary.ca">smanske@ucalgary.ca</a>
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Membership Application/Demande D'Adhesion

**Required Information / Renseignements Obligatoires**

Name / Nom: \_\_\_\_\_

Address / Adresse: \_\_\_\_\_

City / Ville: \_\_\_\_\_

Province / Province: \_\_\_\_\_

Postal Code / Code Postal: \_\_\_\_\_

Membership / Admission:  Regular / Régulier  Student / Étudiant(e)

Telephone / Téléphone: \_\_\_\_\_

Email Address / Courrier électronique: \_\_\_\_\_

Credit Card / Carte de Crédit:  MasterCard  VISA

Card Number / Numéro de la carte: \_\_\_\_\_

Name on Card / Nom inscrit sur la carte: \_\_\_\_\_

Expiration Date / Date d'expiration: \_\_\_\_\_

**Optional Information / Renseignement Facultatif**

Fax / Télécopie: \_\_\_\_\_

Current Research / Recherche Courante: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Degrees / Diplôme: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Areas of Research / Intérêts de recherche: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Secretariat, Canadian Society for Biomechanics  
c/o Dr. Darren J. Stefanyshyn  
Faculty of Kinesiology  
University of Calgary  
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Calgary, Alberta, Canada, T2N 1N4

Send this form with your remittance to:  
Renvoyer ce formulaire avec votre cotisation à: