



# NEWSLETTER

April 1999

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## PRESIDENT'S MESSAGE

Belated best wishes for the new year. Having chaired the NACOB meeting last summer, my better half thinks that I am a few hamsters short of a full bag to take on the presidency of the CSB. If she thanks you for your support in electing me to this position—graciously go with it (I have not yet informed her that I was the sole candidate).

Having been a member of the CSB executive for the last four years I have been able to learn the ropes from our past two presidents. Our last president, Tim Bryant from Queens University, deserves special recognition for his services to the society which have spanned nearly ten years. His wisdom and knowledge of the society have been invaluable. Fortunately he has agreed to stay on the executive in the capacity of member at large to assist in providing some continuity. On behalf of us all, I thank Tim.

Working on the NACOB team, truly was an enjoyable task and time of personal growth. But more importantly for me now as the current president, I was able to observe the contrast between the CSB and ASB societies and executives. The active membership in both societies was roughly equal in number. Yet the ASB was able to act decisively and forcefully when opportunities arose because of the substantial amount of dollars they had in the bank. In contrast, at times the CSB was hamstrung and not always effective because of financial constraints. In fact, the society has had, on several occasions, a balance sheet of zero dollars due to low membership dues. This constraint has been recognized for some time, and at the last Annual General Meeting a motion was passed to increase membership dues, specifically, to fifty dollars for full membership and twenty dollars for student members, per annum. I recall at the meeting there was unanimous support from the non-student membership although there was some concern on the part of the students that the fee of twenty dollars represented a large percentage increase. I believe this was motivated by not being fully aware as to what the students receive for their membership dues. Discounted registration fees at the conference are an obvious benefit. Free admission to the pre-conference workshops for students was also obvious. What was not so obvious was that at NACOB, the conference subsidized every registered student as student registration fees did not even cover the cost of the meals and banquet provided. Further, students received the conference proceedings, bags, etc. In addition, organizers of the meeting were able to secure a grant from the Whitaker foundation for \$14 000 to assist student attendance and full involvement in the meeting.

On another topic, I was pleased to be able to forward a cheque to the CSB for \$8000 dollars from the proceeds of NACOB (the total conference budget exceeded \$150 000). This can be put towards funding some of our society initiatives - namely the "CSB Millennium Fund". The executive has agreed in principle to establishing a sum, which shall be contributed to annually, from which the interest/income will be used for funding student travelships etc. Our short term objective is to put this endowment in place.

Finally, this newsletter shall be our last "printed paper" newsletter that you will receive via snail mail. All future newsletters will be accessed on the CSB website. Please forward your email addresses to Gord Robertson at the address shown in this newsletter. Our next newsletter will contain information on the conference in Montreal, Student Awards etc. We look towards our next CSB meeting at the University of Montreal hosted by Francois Prince. Tentative dates are August 19-22, 2000. We thank Francois for taking on this initiative and I wish the best to all CSB members in their research programs, and personal lives for the next year.

*Stu McGill, President*

## NEWSLETTER EDITOR'S MESSAGE

Plans are that this is the last paper copy of the newsletter. With the ever improving facilities available on the Net the newsletter will become completely electronic. It is already possible to obtain previous copies of the Newsletters from the CSB/SCB website at:

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

Click on the item Newsletters to view previous and in the future current newsletters. The webpage will enable the executive and members to communicate with each other more quickly and less expensively. Furthermore, the Web medium permits the transferring of more complex items such as software, computer animations, data and pictures.

In addition to going electronic with the newsletter, plans are underway to permit electronic notification for the payment of dues. Starting with the next payment each member will be notified of dues via email. It is therefore imperative when submitting payment this year that you include your email address on the fee statement. Be assured that your address will remain private and **will not** be given or sold to any commercial enterprise. We already get too many unsolicited junk mail.

*D. Gordon E. Robertson, Communications and Webpage Editor*

## REPORT ON 1998 CONFERENCE

### REPORT ON THE 10<sup>th</sup> CSB CONFERENCE, WATERLOO, 14-18 AUGUST 1998

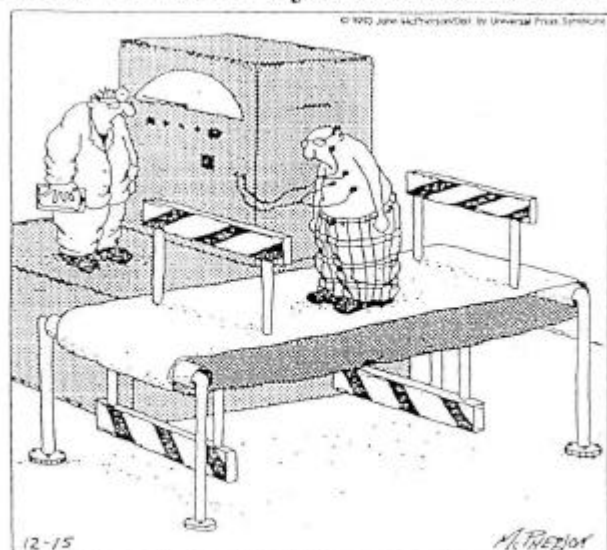
NACOB attracted delegates from 21 countries, with a final registration number of 385. Of these, 163 were students. The feedback that we received suggested that the overall conference was a resounding success. The program was innovative and somewhat untraditional given the focus on the poster format of presentation—even for senior scientists, with featured debates, symposia and keynote lectures. In addition, student award sessions were featured with noncompeting podium presentations.

The conference made a small amount of money even with the very modest fees charged of students. The final accounting has indicated that we are able to repay both the Canadian and American Societies for Biomechanics their seed money, and are able to provide an additional \$8,000 CDN (or approximately \$5300 US) to each society for future conferences. Proceedings of the meeting may be obtained by contacting the CSB Secretariat.

It was an honour and pleasure to lead the team of dedicated people who contributed many hours of time to make the conference a success—I thank them all.

*Stuart M. McGill, Conference Chair*

### CLOSE TO HOME by John McPherson



"You'll probably find this considerably more strenuous than other treadmill tests you've taken."

# MINUTES OF THE GENERAL MEETING

Minutes of the Annual General Meeting of the Canadian Society of Biomechanics, 15 Aug. 1998  
 Present: Tim Bryant (President), Stuart McGill (Conference Chair), Denis Gravel (Secretariat),  
 Janice Eng (Secretary-Treasurer), Lisa Brereton (Student rep.). A total of 33 members in  
 attendance including the above.

## 1. 1998 Agenda presented

### 2. Review of Minutes of the 1996 AGM

- Motion to approve minutes  
 Moved: Gordon Robertson      Seconded: Jean Dumont      **CARRIED**

### 3. Secretariat Report

**3.1 1997-1998**      See appendix

**3.2 Membership**      The total membership of the Society is 116 and is distributed:

Regular members		Student members	
Canada	58	Canada	37
USA	13	USA	4
Other	4		
Total	75	Total	41

- Motion to receive budget  
 Moved: David Winter      Seconded: Joan Stevenson      **CARRIED**

### 4. NACOB Conference Report (S. McGill)

Member Registration	137	62 390.00
Non-member	41	19 910.03
Student	84	16 144.00
Non-student	66	15 703.00
<b>Total</b>	<b>328</b>	<b>\$114 147.03</b>

### 5. Budget Issues

The very low annual CSB fees do not provide sufficient funds to 1) enhance educational activities of the CSB or 2) provide sufficient conference funds. The CSB will introduce corporate memberships to generate revenue. In addition, the membership was asked to consider an increase in the annual fee structure.

- Motion to increase regular membership fees to \$50 and student membership to \$20.  
 Moved: Mardy Frazer      Seconded: David Winter      **CARRIED (unanimous)**

The CSB newsletter will communicate the information regarding the increase in fees.

### 6. Points of Information

a. Position on accreditation of kinesiology and physical education programs in Canada.  
 CSB will not take a position on the accreditation issue, but will be available for consultation if requested.

b. Medical Research Council grant panels  
 MRC is moving towards a disease-focussed review structure (similar to the current NIH structure) and

is polling the academic societies for their opinions. The CSB is supportive, although the potential to impact NSERC funding will be brought forward to MRC.

c. Conference partnerships

The concept of affiliating with complementary conferences to minimize travel/cost impact on researchers was brought forward. No immediate actions were set.

**7. Year 2000 CSB conference.**

The proposed bid is to hold the conference at the University of Montreal, chaired by Francois Prince and Denis Gravel, with assistance from Denis Gagnon and Sylvie Nadeau.

- Motion to go forward with the Montreal bid

Moved: Janice Eng                      Seconded: Janet Ronsky                      **CARRIED (unanimous)**

The lack of questions in the Awards Presentations was brought forward. Advantages (clarify student's knowledge, allow for spontaneity) and disadvantages (intimidating, questions may be biased) of this process were discussed and should be carefully considered for the year 2000 conference.

The advantages (e.g., enhance interactions between scientists) and disadvantages (e.g., presenter has difficulty viewing posters in their session, some prefer oral presentations) of poster presentations were discussed and should be carefully considered for the year 2000 conference.

**8. 1998-2000 Executive**

President: Stuart McGill

Members at large: Tim Bryant, Cheryl Kozey, Janet Ronsky

(to carry out special initiatives which could include fund-raising, special symposiums, educational ventures)

Secretary-Treasurer: Janice Eng

Member Affairs (previously Secretariat): Denis Gravel

Student member: not determined

Communications: Gordon Robertson

- Motion to go forward with the proposed 1998-2000 Executive (excluding the student member which is to be determined later)

Moved: Benno Nigg                      Seconded: Joan Davison                      **CARRIED (unanimous)**

**9. Proposal for 2002 Conference**

Walter Herzog (representing the World Congress) has proposed that a CSB meeting be held in association with the 2002 World Congress of Biomechanics (Calgary, Aug 2-8). ASB is also being approached as to this feasibility.

The feasibility of such an association was discussed. The main advantage is the international scope of biomechanics which would be present. The disadvantage might be a loss of independence of the CSB in the conference program. However, Dr. Herzog gave his assurances that the CSB could maintain its identity through some of the traditional CSB research forums (e.g., Locomotor Symposium).

- Motion for CSB Executive to investigate the possibility to have the 2002 Conference in association with the CSB conference

Moved: Joan Davis                      Seconded: Genevieve Dumas                      **CARRIED (31: yes    0: no  
2: abstained)**

*Janice Eng, Secretary-Treasurer*

# CSB NOTICES

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## CSB on the WEB

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Thanks to Gordon Robertson from University of Ottawa, the CSB now has its homepage on the web. The address is:

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

Many useful documents are now located at this site. Some of the documents are printed in Adobe's Portable Document Format (.pdf). These require that your computer have Acrobat Reader installed on your computer. This free software is available from Adobe at:

**<http://www.adobe.com/prodindex/acrobat/readstep.html>**

It's available for all types of platforms (even DOS). The advantage of this format is that the viewer is free and therefore the recipient does not have to have any particular word processor or graphics software. Text and figures are reproduced faithfully (most of the time) and can be printed on local printers. Once you have Acrobat Reader installed try the following. Say, for example, you need to know the location of the centre of mass and radius of gyration of the thigh segment, from your web browser enter:

**<http://www.health.uottawa.ca/biomech/csb/archives/dempster.pdf>**

If your computer is correctly configured, Acrobat will load and display a table of Dempster's body segment parameters. You can enlarge the text by clicking on the icon with the magnifying glass and plus sign, then clicking on the text. The icon that looks like binoculars allows you to search for specific words in the text. The hand icon is used to slide the page around in the program window. Move the hand onto the text then drag the page to uncover parts of the text that are not visible in the window. Clicking on the single arrow buttons skips the viewer from page to page in the document.

For the programmer, the website contains a collection of file formats. For example, if you want to read an APAS or Kistler BioWare file click the following to find how data are stored by these systems:

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

For free software try the link:

**<http://www.health.uottawa.ca/biomech/csb/software>**

or for Laws of Nature and Humanity (some humourous) try:

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

Have a look at Newton's Laws as they were originally written. Included is the cover page from his *Principia Mathematica*. Did you know that S. Pepys was the publisher? For those interested in preparing for barrel riding in Calgary this summer analyze the following technique:

**<http://www.health.uottawa.ca/biomech/csb/news/news95.htm#csb94>**

Please feel free to send comments or contribute data or software to the site. Send your information by email to Gord Robertson at **[dger@uottawa.ca](mailto:dger@uottawa.ca)**.

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# CSB 2000

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The next meeting of CSB will be held August 17-19 in Montréal at the Université de Montréal. The hosts will be the:

Département de kinésiologie  
Université de Montréal  
Montréal, QC, H3C 3J7

Information about the conference will be posted at the following website as they become available:  
<http://www.health.uottawa.ca/biomech/csb2000>

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## Dues

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Dues for 1999 will be due in January. You are welcome to start sending them with an updated membership form to the new permanent secretary Denis Gravel (address under “New Executive”).

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## Proceedings from 1998 Conference Available

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A limited number of the NACOB conference Proceedings held in August 98 at Waterloo are available. The cost of the Proceedings is \$45.00 (Canadian currency). To order the Proceedings, fill the form below and send an international money-order or a cheque drawn on a Canadian bank payable to the Canadian Society for Biomechanics. Master Card payment is also available.

Une quantité limitée des compte-rendus du congrès NACOB qui s'est tenu à Waterloo en août 98 sont disponibles. Le coût des compte-rendus est de \$45.00 (Devise canadienne). Pour commander les compte-rendus, remplir le bon de commande ci-dessous en incluant un mandat-poste ou un chèque fait à l'ordre de la Société Canadienne de Biomécanique. Le paiement par Master Card est aussi disponible.

Complete in block letters / Compléter en lettres moulées

Name / Nom                      ))

Address / Adresse              ))

                                      ))

Master Card number: \_\_\_\_\_ Expiration date: \_\_\_\_\_

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

E-mail / Courrier électronique   ))

Send the request to: / Envoyer votre requête à:  
Denis Gravel  
École de Réadaptation  
Université de Montréal  
Montréal, QC, H3G 3J7, Canada

# NEW EXECUTIVE/NOUVEL EXECUTIF

## CSB/SCB 1998-2000

<b>President and Past Conference Chair</b>	Dr. Stuart McGill Department of Kinesiology University of Waterloo Waterloo, ON, N2L 3G1	Phone: 519-885-1211 ext. 6761 Fax: 519-746-6776 Email: mcgill@healthy.uwaterloo.ca
<b>Secretary/Treasurer</b>	Dr. Janice Eng Rehabilitation Sciences University of British Columbia Wesbrook Mall Vancouver, BC, V6T 2B5	Phone: 604-822-7937 Fax: 604-822-7624 Email: jeng@rehab.ubc.ca
<b>Conference Chair</b>	Dr. Francois Prince Département de kinésiologie Université de Montréal C.P. 6128, succursale centre-ville Montréal, QC, H3C 3J7	Phone: 514-343-7784 Fax: 524-343-2181 Email: francois.prince@umontreal.ca
<b>Secretariat and Member affairs</b>	Dr. Denis Gravel Institut de réadaptation Université de Montréal 6300 Avenue Darlington Montréal, QC, H3S 2J4	Phone: 514-343-5934 Fax: 514-343-2105 Email: denis.gravel@umontreal.ca
<b>Communications</b>	Dr. Gordon Robertson School of Human Kinetics University of Ottawa Ottawa, ON, K1N 6Y1	Phone: 613-562-5800 ext. 4253 Fax: 613-562-5149 Email: dger@uottawa.ca
<b>Members at Large</b>	Dr. Tim Bryant Dept. of Mechanical Engineering Queen's University Kingston, ON, K7L 3N6	Phone: 613-545-2564 Fax: 613-545-6489 Email: bryant@me.queensu.ca
	Dr. Cheryl Kozey School of Physiotherapy Halifax, NS, B3H 3J5	Phone: 902-494-2635 Fax: 902-494-1941 Email: cheryl.kozey@dal.ca
	Dr. Janet Ronsky Dept. of Mechanical Engineering University of Calgary 2500 University Drive NW Calgary, AB, T2N 1N4	Phone: 403-220-8134 Fax: 403-282-8406 Email: jlronsky@ucalgary.ca
<b>Student Members</b>	Mr. Blake McGowan, M.Sc Candidate Gait & Posture Laboratory Department of Kinesiology University of Waterloo Waterloo, ON, N2L 3G1	Phone: 519-888-4567 ext. 2601 Fax: 519-746-6776 Email: bmcgowan@nclab.uwaterloo.ca
	Mr. Greg Wohl, M.Sc. Dept. of Mechanical Engineering University of Calgary 2500 University Drive NW Calgary, AB, T2N 1N4	Phone: 403-220-3728 Fax: 403-270-0617 Email: greg@mccaig.ucalgary.ca



**CANADIAN SOCIETY FOR BIOMECHANICS  
SOCIÉTÉ CANADIENNE DE BIOMÉCANIQUE**

**Membership Application/Demande d'Adhésion**

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

Degrees or Diplomas/Diplômes \_\_\_\_\_

Business Address/Adresse d'affaires \_\_\_\_\_

Postal Code/Code Postal \_\_\_\_\_ Phone \_\_\_\_\_

E-Mail \_\_\_\_\_ Fax \_\_\_\_\_

Home Address/Adresse Personelle \_\_\_\_\_

Postal Code/Code Postal \_\_\_\_\_ Phone \_\_\_\_\_

Area(s) of Research/Intérêts de recherche \_\_\_\_\_

Membership Class		
Member (\$50.00)	Membre	(50,00 \$)
Student (\$20.00)	Étudiant	(20,00 \$)

Mastercard no. \_\_\_\_\_ Expiry date \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

Send this form with your remittance to: *Renvoyer ce Formulaire avec votre cotisation à:*  
**Secretariat, Canadian Society for Biomechanics,**  
*c/o Dr. Denis Gravel,*  
**Institut de réadaptation de Montréal**  
**6300 Avenue Darlington,**  
**Montréal, PQ H3S 2J4**

## APPENDIX

<b>FINANCIAL REPORT</b>	<b>1997</b>	<b>BILAN FINANCIER</b>
(Montréal account)		

<b>INCOME</b>		<b>REVENUS</b>
Membership fees	625.04	Cotisation des membres
Sale of proceedings	802.50	Vente des compte-rendus
 Total	 1427.54	 Total
<b>EXPENSES</b>		<b>DÉPENSES</b>
Additional expenses from 1996 conference	1000.00	Dépenses supplémentaires du Congrès 1996
Secretariat	207.32	Secretariat
Service charges	110.53	Frais de services bancaires
 Total	 1317.85	 Total
 <b>BALANCE</b>	 <b>109.69</b>	 <b>SOLDE</b>

<b>FINANCIAL REPORT</b>	<b>1998</b>	<b>BILAN FINANCIER</b>
(Montréal account)		

<b>INCOME</b>		<b>REVENUS</b>
Opening balance (1997)	109.69	Solde antérieur
Membership fees	1434.60	Cotisations des membres
Sale of Proceedings	110.92	Vente des compte-rendus
Return from the 1996 conference	582.01	Retour du congrès 1996
 Total	 2237.22	
<b>EXPENSES</b>		<b>DÉPENSES</b>
Secretariat	256.93	Secretariat
Service charges	94.05	Frais de services bancaires
Student stipend	75.00	Remise aux étudiants
 Total	 425.98	 Total
 <b>BALANCE</b>	 <b>1811.24</b>	 <b>SOLDE</b>