

ISBS Newsletter

Fall 2004
(Vol. 20, No. 1)



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ISBS Symposium 2004, Ottawa

Post-Conference Report

The XXIIInd International Symposium on Biomechanics in sports is the official annual meeting of the International Society of Biomechanics in Sports (ISBS) held at the University of Ottawa, Ottawa, Canada from August 8th to 12th, 2004. The specific and primary purposes of ISBS are to teachers, to bridge the gap between researchers and practitioners, and to gather and disseminate information and materials on biomechanics in sports.

The proceedings of this symposium include the Geoffrey Dyson lecture, 6 keynote lectures and 180 accepted original research papers submitted by biomechanists from 25 different countries. Of these 105 original papers were selected for oral presentations and 75 for poster presentations. Of all the submitted abstracts, seven have been rejected due to the lack of content. Some of the abstracts have been accepted with minor corrections. The scientific committee has tried to respect as much as possible the author's delivery preference for their presentation. The proceedings were edited and formatted in order to maintain the uniformity of the page settings. The content of the abstracts have not been changed or modified without the consent of the authors. Ten papers have been accepted for oral or poster presentation but for any particular reasons; those papers have not been presented at the symposium. I would suggest that our Society establishes regulation to prevent this kind of situation.

A very special feature is the Geoffrey Dyson Memorial Lecture presented by an outstanding scientist in sports biomechanics: Dr. Benno Nigg, the director of the Human Performance Laboratory at the University of Calgary. He is this year's recipient of the Geoffrey Dyson Award. This award recognizes sports scientists who, throughout their professional careers, have bridged the gap between biomechanical research and sport practice. He has delivered the opening lecture of the symposium: "Impact Forces and Movement control - Two new paradigms".

Another special addition to the symposium this year was the presence of Professor Einar Eriksson who has delivered a special lecture entitled "How a Sports-Orthopaedic Surgeon Realized the Importance of Biomechanics" in order to give us insight into multi-disciplinary research. Well-known researchers such as Dr. Lynn Snyder-Mackler, who replaced Prof. Giuliano Cerulli, Dr. Antonie J. van den Bogert, Dr. Richard Smith, Dr. Roger Bartlett, and Prof. Mag. Dr. Erich Müller have presented keynote lectures during the symposium.

Eleven sponsors and/or exhibitors have provided up-to-date information on equipment, software, and applications to biomechanics. Without the financial support of the exhibitors, the quality of the scientific and social program would have been less attractive. We want to acknowledge their support to the Society and Symposium: Thanks to: Peak Performance Technologies Inc.; SIMI Reality Motion System GmbH; Motion Analysis Corp.; Vicon Motion Systems, Inc.; RSscan International; Advanced Mechanical Technology Instruments; Novel, Inc.; Qualysis Medical AB; Human Kinetics Publishers Canada; Noraxon, USA; and Tekscan, USA.

Finally, as President of the XXIIInd International Symposium on Biomechanics in Sports, I would like to sincerely thank the local organizing committee for their industrious work and involvement to the organisation of the symposium. Without the support of the secretarial staff and Quadra Events, it would have been impossible to successfully achieve this high quality symposium. Thanks to Mélanie, Karina, Émilie, Jane, Hélène et Geneviève.

Mario Lamontagne, Ph.D.

<http://www.health.uottawa.ca/isbs2004/>

Impressions of the ISBS 2004, Ottawa

Most of us started our visit at Ottawa International Airport, which conveniently had bus service (~20 min) directly to Ottawa University for a couple Canadian dollars. For those of us arriving in the

middle of the night it was nice that the bus operated 24 hours/day and that the university housing reception also was open 24 hours/day.

At the welcome reception on Sunday August 7th we were welcomed by a bag pipe player and drinks (thanks Vicon Motion Systems). At the reception we always see friends that we may not have seen since the last conference. After the reception those of us not dealing with excessive hours of jetlag ventured into the city, which was within walking distance from the Ottawa University.

Arriving at the University center the Monday morning (and every morning after that), the members were greeted by friendly help, breakfast pastries and coffee. That warm greeting set the stage for a very stimulating week of biomechanics presentations, equipment demonstrations and social events. The 200+ members present were a large enough group to allow for a meaningful exchange of information and ideas and a small enough group to allow for a comfortable atmosphere where you could conceivably make contact with most other members during the conference week.

The Geoffrey Dyson lecture presented by Benno Nigg gave us not only some in-depth biomechanical information but also a direct sports application of the results. The keynote lectures were of a range of topics and all quite interesting. Although the purpose of this article is not to mention everyone by name and thank them for their contributions, thanks is in order as these presentations included significant ($p < 0.001$) amounts of thought provoking results. Monday following the day presentations we all met in the Jock Turcot University center for the exhibitors event for a beer and a chat (thanks to all exhibitors).

The oral and poster presentations covered a wide range of sports/methods/applications. Many of the presenters were non-native speakers. Presenting in a foreign language (not to mention answering questions afterwards) is a difficult task. This international exchange of information and ideas is part of what makes the ISBS community so stimulating. It seemed appropriate that this multicultural get-together was being held at the

largest bilingual university in North America.

Fourteen young investigators applied for the YIA. After the smoke cleared the winner was Cassie Wilson (School of Sport, PE and Recreation, University of Wales Institute Cardiff, UK) with a presentation on 'Optimisation of performance in running jumps for height'.

Wednesday after the presentations we went on an international boat cruise (thanks RSscan). The boat ride took us through the water ways of Ottawa and included not only marvelous sights but also a limbo competition. The 3 year old that walked casually under the bar seemed to have a definite anthropometric advantage over the rest of the field. Luckily nobody pressured the limbo judge into normalizing the limbo height to each of the competitor's body length.

The tutorials (Golf, Hockey, Skiing) were all well visited and received. During the skiing tutorial Prof Ejnar Eriksson demonstrated that his scope of expertise extends well beyond orthopaedic surgery and includes esoteric winter sport history facts. His friendly and humorous manner was appreciated by all who attended.

Throughout the conference there were no major technical problems. Thanks should go out to a helpful and knowledgeable technical staff.

The posters were strategically positioned between the lecture rooms and the food and sponsors. They were well visited and seen by all. The sponsors were positioned directly next to the food which was good, otherwise some of us may have forgotten to eat. The equipment sponsors were present each day of the conference. Some of us took advantage of that and went back every day with new questions.

The closing banquet was held at the Canadian Museum of Civilization. Before the banquet we had time to visit the various exhibits in the museum and then have a cocktail and visit (thanks Motion Analysis). The banquet room was lined by the largest collection of totem poles in the world (see! I was listening!). Entertainment was provided by aborigine dancers and later by music from a local band which played some French-Canadian gypsy music (which included a

biomechanics student from Ottawa University on guitar). In addition to the young investigator which was mentioned earlier several other honors were also given. Stuart Miller had the honor of announcing the newest ISBS fellows. The well deserving recipients of this honor were Roger Bartlett and the late Jim Hay. Pekka Luhtanen was awarded ISBS life member.

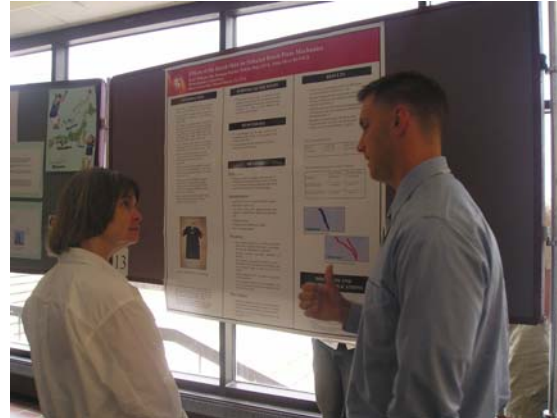
There was a plethora of 'non conference' social opportunities throughout the week. The 'downtown' was within walking distance of the university housing and the hotels. This included not only a collection of splendid old buildings, but also a splendid collection of restaurants and pubs. The market place was one of the highlights. After focusing our attention on power point presentations the entire day some of us stopped in the local pubs for a 'power pint'. There was a spectacular lights show on the parliament building every night. Parliament Hill was a short (~10 minute) walk along the canal from the university.

All of this made Ottawa University an excellent site to host an international conference. When everything goes well it's easy to point out all of the positive things that happened, and oversee the planning behind the conference. The fact that nothing major went wrong is a sign that the planning and organization of this conference was successful. Thanks should go to the man in charge, Mario Lamontagne, and those who helped him. Thanks for a great conference.

Mark Walsh, Karen Roemer, and Hermann Schwameder

Students Benefit from ISBS Ottawa 2004

Students attending ISBS Ottawa 2004 got many opportunities to learn from some of the best in the world in sport biomechanics. Many students attended this year's symposium. It is a unique experience for students from around the world to share research ideas, network for post-doctoral positions, or present thesis/dissertation data in this forum. For many, just to be able to directly and comfortably question an expert in a particular area was a thrill.



Student Ryan Williams (USA) discusses his poster with Dr. Jackie Hudson (USA).



Students hear about the latest technology from vendors.

ISBS also provided social events such as the riverboat ride and closing banquet that facilitated interaction between students and professional members. Students also got connected with each other and formed important relationships for the future. Barry University (Miami Shores, FL, USA) student, Tobin Silver, stated this about his experiences at this year's ISBS, "It was great to meet other students from around the world who are new to the research area like I am; at first it was intimidating to meet the scientists who wrote the books and articles I am learning from, but once I actually spoke with them, they were very encouraging and helpful, especially Dr. Chow."

Students also became aware of the latest technology used to analysis sport skills and equipment.

Monique Butcher

Future ISBS Symposia

ISBS2005

The 23rd International Symposium on Biomechanics in Sports is well prepared by Prof. Qing Wang, Vice President of China Institute of Sports Science, and his team. Here I am pleased to give the following information about this Symposium.

Date:

August 22-27, 2005

Venue:

The Capital Hotel, Beijing, P. R. China

Accommodation:

1. The Capital Hotel: a four-star hotel located in the center of city, has been selected as the event and accommodation venue for the Symposium. The cost of a double room will be US\$70 per night. The hotel is only 1.5 kilometers from the Forbidden City, Tian'anmen Square, and the famous Wangfujing shopping center, only 3 kilometers from Beijing Railway Station, and 30 kilometers from Beijing International Airport.
2. The Beijing Dongjiaominxiang hotel, a good three-star hotel near the Capital Hotel, will also be available for accommodation during the Symposium. The cost of a double room will be US\$52 per night.

Academic Programs (Preliminary):

1. Basic research topics
 - Theory and practice of applied biomechanics in sports
 - Analysis of sports techniques
 - Bioelectrical and dynamic measurement and application in sports biomechanics
 - Modeling and computer simulation of human movement
 - Application of sports biomechanics in orthopedics, injury prevention, and rehabilitation
 - Methodology of sports biomechanics
2. Applied research topics

- Biomechanics of martial arts
- Biomechanics of aquatic sports
- Biomechanics of gymnastics

3. Workshops

- Application of foot pressure distribution devices

Social Programs:

1. The social program will include tours of the Great Wall, Longqing Gorge, the Forbidden City, Tian'anmen Square and others. In addition, you will be able to enjoy the Beijing opera.
2. Options: if you are interested in the following tours after the conference, then we will help them contact an official travel agency.
 - Beijing:
The Summer Palace/Yuanmingyuan tour
The Beijing local bystreet/SIHE Yard tour
 - Other Cities:
3 days/2 nights Xi'an tour
4 days/3 nights Shanghai/Suzhou/Hangzhou tour
5 days/4 nights Kunming/Guilin tour

Registration:

<i>Registration Type</i>	<i>Before June 1, 2005</i>	<i>After June 1, 2005</i>
ISBS Members	US\$275	US\$325
Non Members	US\$325	US\$375
Full-Time Students	US\$225	US\$275
Accompanying Persons	US\$225	US\$275

Registration fee covers:

- Beijing International Airport courtesy pickup and drop off
- Admission to all basic research sessions, applied sessions, workshops, and exhibitions
- Scientific Proceedings
- Satchel
- Opening banquet and farewell party
- Coffee break, lunch and dinner
- Tour of Tian'anmen Square and the Forbidden City
- Tour of the Great Wall and Longqing Gorge

- Beijing Opera
- Sessions of the Applied Program

Call for Papers:

Scientific papers are recommended for oral sessions, poster sessions or symposia. Three types of papers are accepted for review:

- Full length manuscripts of up to 4 pages, including a 10 line abstract
- Abstract of work, one page
- Work in progress, one page.

Please submit the paper to the ISBS 2005 Secretariat. The deadline for paper submission is April 1, 2005. Detailed guidelines for the preparation of papers can be found at WWW.CSSB2001.net/ISBS2005. All papers are subject to review by the Scientific Committee.

Important Dates:

Full paper submission by April 1, 2005.
Notification of acceptance by May 1, 2005.
Early registration by June 1, 2005.
Registration and Reception, August 22, 2005.
Symposium Dates, August 22-27, 2005.

Schedule:

Aug 22: Registration, Pre-Conference Meeting, Reception
Aug 23: Opening Ceremony, Memorial Lecture, Keynote Lecture, Oral Presentation, Exhibition, Poster, Workshop
Aug 24: Keynote Lecture, Oral Presentation, Exhibition, Poster, Workshop, Beijing Opera.
Aug 25: Keynote Lecture, Oral Presentation, Exhibition, Poster, Workshop, General Conference Meeting (ISBS2006).
Aug 26: Visiting the Great Wall and Long Qing Gorge, Evening Party at the Great Wall.
Aug 27: Visiting the Forbidden City, Shopping (free), Closing Banquet.

ISBS2006

The 26th International Symposium on Biomechanics in Sports (ISBS2006) will be held in August 2006 in Salzburg, Austria, one of the most beautiful and historic city in middle Europe. This year, Salzburg will celebrate the 250th anniversary of Mozart's birth with numerous music and social attractions in the city and in the province. Dr. Prof. Hermann Schwameder, Department Sport Science and Kinesiology, University of Salzburg, will be the chairman of the symposium.

ISBS2007

The application to host the 23rd International Symposium on Biomechanics in Sports (ISBS2005) is now invited.

Members who are in good standing and who are interested in hosting this conference, please submit your proposal to me by April 30, 2005. As the proposal needs to follow the correct format, when you prepare the proposal, please refer to ISBS web site (<http://isbs.org>): "How to submit a proposal to host an ISBS conference". You also need to show that your institution supports your proposal. For anyone wanting further information, please do not hesitate to contact me at youlianhong@cuhk.edu.hk.

Please send your electronic file of the proposals to me. Proposals will be distributed to all Executives of ISBS for review and decision will be made during the ISBS2005 in Beijing, August 22-27, 2005. Proposals from any geographical regions and any countries are welcome; however, according to the geographical rotation of the place of ISBS conference, proposals from America Continent will be given the priority.

Youlian Hong

Officers' Reports

President's Report, 2004

Your executive met on a number of occasions during the "Ottawa experience" in an endeavor to

ensure the smooth running of the Society. Those that attended the conference certainly would expect the Board to thank Mario Lamontagne and his team for a truly wonderful academic and social

event. To those of you unable to attend then Beijing in 2005 offers another wonderful opportunity to “show-case” your research and enjoy ISBS hospitality.

The following and other issues were dealt with in depth at our meetings.

Constitution:

A revision of the constitution to bring it into line with current thinking is now underway. The role of individual Board members was also discussed at length.

Membership:

We need to aggressively seek new members from both those countries with relatively high current membership, while also targeting countries such as Japan, South Korea, China and Taiwan, where we could improve membership numbers dramatically. Countries such as mentioned above have a keen interest in sport biomechanics and we should attempt to attract their scientists as members

Journal: The quality and punctuality of the journal is now not in question and Ross Sanders and current editor Roger Bartlett must be congratulated. Roger and the Board are currently looking to have the journal recognized in citation indices, expand the number of issues to three per year, as well as increase the circulation. You all can assist in improving the circulation level by ensuring your library has a subscription. While the annual conference is the lifeblood of the society the journal must become our academic barometer.

Sponsorship:

Currently sponsors are linked to selected prizes (Dyson, young investigator awards and so on) as well as to the annual conference. We need to obtain sponsors who would support our charter-not only research (eg, Peak) but applied and tutorial session sponsors.

CIS:

This is clearly something Ross Sanders has developed. While now not a part of ISBS, most of the Sites are chaired by ISBS members. Our continued association with this site is of importance to the Society.

Affiliations:

The Society is looking at establishing affiliations with a number of similar societies (eg ISB and The International Sports Engineering Association)

Tutorials:

The need for tutorials pre-conference were also discussed. Some topics (very brief) could be:

- 3D motion in an outdoor setting
- Computer simulation or inverse dynamics in sport
- EMG: a determinant of muscle activity
- Marker set development in movement analysis;
- Analysis approaches in sport- coaching feedback
- Force measurement in sport
- Laboratories to illustrate kinetics and movement

A fee would be charged (low for students) and the profits shared by the presenter and Society.

Applied program:

The Board endorsed the importance of applied sessions at the annual conference.

Everyone should begin planning to attend China in 2005. Visa requirements mean that this planning should begin a little earlier than normal.

Regards to all,

Bruce Elliott

VP Publications’ Report, 2004

This is in fact a two-year report since we did not have last year’s symposium in Beijing due to the SARS outbreak.

Search for the New Journal Editor:

The main task of the VP Publications during the last two years was the search of the new editor of Sports Biomechanics journal. In Oct 2002, Ross Sanders, the founding editor, expressed his intention to step down from the editorship. I immediately reported this to the EB and the BOD.

After a series of discussions regarding how to proceed, it was decided to form a search

committee with the VP Publications being the chair. It was a common consensus among the executives and directors that (a) making necessary amendments of the constitution before starting the search is not realistic and (b) the task generally falls under the duties of the VP Publications.

The search committee was formed in Feb, 2003 with Hans Gros (PC & EAB), Stuart Miller (EB & EAB), Aki Salo (BOD & EAB), Bruce Elliot (President Elect & EEB), and Ross Sanders (Founding Editor) as members, and myself as the chair.

The search committee identified the search criteria in March 2003. Essential Requirements of the editor included:

- Strong English grammar and expression
- Strong experience as a reviewer
- Strong background as an applied sports biomechanist
- Affinity with and interest in the ISBS and its mission

Background as a practitioner and affinity with practitioners is deemed desirable but was not required.

Another major debate was devoted to the editorial term. It was a common consensus that the editor position must not be an elected position, but an appointed position. As a result of a vote among the executives and directors, 3 years, renewable upon the approval of the EB and the BOD, was adopted as the new editorial term in early April. The official announcement of editor search was made to the ISBS membership in May 2003.

Another major issue was the upfront payment of the administrative costs. Initially it was agreed between the University of Edinburgh Press and ISBS that the administrative cost should be paid afterward. The agreed level of administrative costs was 15% of the revenue. However, it was perceived that this approach was not reasonable for the new editor who did not have direct affiliation with U of E. After a series of discussions followed by a vote, it was decided that the administrative costs should be paid upfront and the necessary fund should be secured through sponsorship. Consequently, Seoul-based Visol, Inc. agreed to provide the necessary fund for the

upfront payment of the administrative costs.

Among the nominees who expressed their willingness to serve as the editor, Dr. Roger Bartlett was selected as the new editor by the search committee. Dr. Bartlett started his new post as of Oct 1, 2003. The final decision was announced to the ISBS membership accordingly. Dr. Ross Sanders agreed to take charge of the January 2004 issue while Dr. Bartlett started with the July 2004 issue.

Termination of the Affiliation with JAB:

In December 2002, I was approached by Jake Jaquet, Director of the Journal Division of Human Kinetics, publisher of the JAB. He inquired about the status of the relationship between the ISBS and JAB.

It was reported immediately to the EB and the BOD. After a series of discussions it was clear that the relationship was a problematic one from the conception and the attachment to JAB was not necessary considering the fact that we already started our own journal, Sports Biomechanics.

Consequently, it was officially notified to HK that ISBS did not wish to continue or revitalize any official relationship with JAB. It was also requested to remove the endorse statement that regularly appeared on page 1 of the JAB issues saying that JAB was a publication of the ISBS. The endorsement statement was removed accordingly in the May 2003 issue and after.

Mr. Jake Jaquet in return proposed another level of relationship: a discounted JAB subscription rate for the ISBS members. I reported this proposal to the EB and BOD and handed it over to then VP Public Relations, Mario Lamontagne. However, to my knowledge this issue was not further explored.

ISBS Newsletter:

Since I took over the post of VP Publications, only one Newsletter, the Fall 2002 issue, was published. This poor performance was mainly due to the lack of NL materials. The responses to my request from the key officers including the presidents, and other relevant parties of the society such as the symposium organizers were poor for last two years. ISBS Newsletters were typically filled with

reports from the officers and symposium announcements among other things.

Another key factor is the ever changing environment. Since the conception of the ISBS mailing list, important items could be announced directly to the membership via the mailing list. The election website now houses the profiles of the nominees and does not require publishing of the profiles on the newsletter. The timing of the election thus does not need to be synchronized to the publication cycle of the newsletter. The election outcomes have been reported directly to the membership via the mailing list.

All in all, I believe it is time to redefine the role of the ISBS Newsletter and format. I'd like to hear some good input from the officers and membership.

Moving Forward:

As I start my second term as VP Publications, I'd like to focus on the following issues in the next 2 years:

1. **ISBS Website:** Since the beginning of my first term, I tried to move the ISBS website to TWU and keep it under my direct supervision. However, I had experienced some major technical problems. Now, the situation is changing and I will further pursue this issue and conduct a major facelift during my second term. This will include moving the website to TWU and redesigning the web structure. The main website is currently housed at the U of Stuttgart while the membership-related pages are housed at the U of Konstanz. The election site is at the U San Francisco. Attention will be given to the improvement of the quality of the contents. New information will be added while outdated or poorly maintained materials and links will be removed. Sponsors section will be added and active seeking of the sponsors will be attempted with the new VP Public Relations, Eadric Bressel. Participation and help of the officers and all members are essential in this endeavor.
2. **Sports Biomechanics:** One of the most important tasks of the VP Publications is to liaise with the editor of Sports Biomechanics on behalf of the society. I will work closely with Dr.

Bartlett to improve the overall performance of the journal. This year is the third year of circulation of SB and the end of the initial 5 year agreement with U of Edinburgh Press is approaching. Renewal of the agreement must be sought during my second term. According to the first year's financial report that came out in the summer last year, SB made a loss in the first year. The loss was about \$1,600. UE Press and the society equally split the loss in the first year. I have not seen the numbers for the second year yet but turning the overall performance to a gain is what we will all have to pay attention to in the coming years. The key to this end is the number of regular members and we need to keep the member count at least 300. Postponement of the Beijing symposium last year and the subsequent loss of chances to recruit new members made the situation more difficult. I hope a good turn out this year in Ottawa and a large increase in the membership count.

Young-Hoo Kwon

VP Public Relations' Report, 2004

I am pleased to have the opportunity to serve the ISBS as the public relations officer and to contribute to the advancement of biomechanics in sport. My official term began at the ISBS XXIInd annual meeting in Ottawa, Canada. In my opinion, the meeting provided an excellent opportunity for the exchange of ideas in biomechanics in sport and fostered many professional relationships. At the meeting I was also able to get some good ideas on better ways to improve public relations of the ISBS. Because the ISBS public relations officer is responsible for, among other things, establishing good relations with other organizations, I was pleased to get oriented with my position, and am motivated to begin my service. To this end, with feedback from ISBS officers and members, I have organized a public relations committee that will include ISBS board members: Karen Roemer, Mark Walsh, and honorary member David Waddell.

I have prioritized the public relations agenda for this year.

1. The first order of business will be to pursue affiliations with other international societies such as the International Society of Engineering in Sport (ISEA) and the International Society of Biomechanics. Affiliations with these two organizations have the potential to promote and stimulate biomechanics at the international level and to improve communications of activities and accomplishments of the ISBS. Affiliations may also strengthen our society by increasing membership and exposure to our journal, *Sports Biomechanics*. At the time of this report, I have already communicated with ISEA regarding an affiliation and have received favorable feedback from the chairman, Aleksander Subic.
2. The second order of business will be to seek sponsors for the ISBS. Sponsors can provide the ISBS with greater resources for awards and membership benefits. Awards committee

member, Duane Knudson has already expedited this process and is pursuing sponsors for awards such as the New Investigator award. Sponsors in return get advertising and the potential for improved public relations. We ought to more clearly identify strategies to attract sponsors which will increase our sponsorships. If you have any suggestions please let me know (ebressel@cc.usu.edu). A final agenda item will be to pursue patrons for the XXIIIrd annual meeting in Beijing, China and honorary ISBS officers.

In closing, the public relations committee is active and eager to improve public relations for our society. Do not hesitate to contact me if you have questions or suggestions!

Eadric Bressel

Upcoming Conferences

Submitted by Gay Christopher.

ACSM 52nd Annual Meeting
Jun 1-4, 2005, Nashville, Tennessee, USA
American College of Sports Medicine:
<http://www.acsm.org/meetings/index.htm>

ASME Summer Bioengineering Conference
Jun 22-26, 2005, Vail, Colorado, USA
American Society of Mechanical Engineering:
<http://www.asme.org/divisions/bed/events/summer05.html>

Jennifer S. Wayne, Ph.D., Conference Chair,
jswayne@vcu.edu

1st World Congress on Sports Injury Prevention
Jun 23-25, 2005, Oslo, Norway
Oslo Sports Trauma Research Center
Norwegian University of Sport & Physical Education
<http://www.ostrc.no/congress2005/>

XXIIIrd ISBS International Symposium
Aug 22-27, 2005, Beijing, China
<http://www.cssb2001.net/isbs2005/>

XXth ISB Congress & 29th ASB Annual Meeting

Aug 1-5, 2005, Cleveland, Ohio, USA
Cleveland Clinic Foundation
<http://www.isb2005.org/>
info@isb2005.org

XIVth ESMAC Annual Meeting
Sept 2005, Barcelona, Spain
European Society of Movement Analysis for Adults and Children:
esmac2005@biomecanica.net
Bertram Müller: b.muller@biomecanica.net

27th Annual International Conference of the IEEE Engineering in Medicine and Biology Society
Sep 1-4, 2005, Shanghai, China
IEEE Engineering in Medicine and Biology Society:
<http://www.ee.cuhk.edu.hk/EMBC05shanghai/index.html>
emb-conferences@ieee.org

HFES 49th Annual Meeting
Sep 26-30, 2005, Orlando, Florida, USA
Human Factors & Ergonomics Society:
<http://hfes.org/meetings/menu.html>

12th International Conference on Biomedical Engineering
Dec 7-10, 2005, Singapore

IEEE Engineering in Medicine and Biology Society: <http://www.icbme.org/icbme05@inmeet.com.sg>

Scholarship Opportunities

Postgraduate Scholarships

Submitted by Richard Smith PhD.

The International Centre of Excellence in Sports Science and Management (www.icessm.com.au) invites applications for postgraduate scholarships from high caliber students wishing to pursue a research Masters or PhD degree at the University of Technology, Sydney or The University of Sydney, in Sports Science and/or Sports Management. ICESM is a multi-disciplinary centre devoted to excellence in all aspects of sport. Specific projects and supervisors are listed in the Information Package. Applicants are also welcome to propose their own projects or nominate staff members at either University whom they would like to approach as

research supervisors.

Being an ICESM Scholar will provide a unique career opportunity. Students will be actively involved in ICESM, helping develop the future directions of the Centre and forming relationships across the sports industry. Scholarship holders will also participate in ICESM functions, conferences and workshops.

Scholarships provide an annual stipend of \$23,886 (tax free).

To receive an Information Package and details of the application process please email the ICESM Executive Officer, Dr. Keiran Thompson, at keiran@icessm.com.au.

New Members

ISBS welcomes the following new members who joined ISBS since the last list was published:

Gary A. Christopher, Student Member
Texas Woman's University, USA
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Marianne J. Gittoes, Student Member
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Loren Z. Chiu, Student Member
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Editor's Corner

NL Volume 20 No. 2:

The deadline for the Winter issue of the Newsletter is Nov 15, 2004. Please submit the NL materials to:

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I'd like to dedicate the Winter 2004 issue to "research." and any items related to research are

welcome, such as your current research projects, your laboratories, academic and research programs, abstracts of the theses and dissertations, analysis methods and techniques, resources (computer programs and testing protocols), etc. Other items are also welcome since the special issue does not exclude other NL items.

Any suggestions regarding the Newsletter are welcome, too. I need help from the membership in editing the Newsletters. Those who would like to serve on the Newsletter Editorial Committee please let me know.

Young-Hoo Kwon
Editor, ISBS Newsletter