

ISBS Newsletter

March 2008
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President's Message

Dear ISBS Members:

It has only been a few months since we concluded with success the ISBS Conference held in Ouro Preto, Brazil and yet the ISBS2008 Conference in Seoul, Korea is gradually fast-approaching.

It is therefore appropriate for us to start preparing for this annual gathering, which will take place shortly before the 2008 Beijing Olympic Games. For more detailed information about this upcoming event, please visit the conference website at www.isbs2008.org.

In this regard, it is with delight that I report that the members of the ISBS Executive Committee have been working hard for both the short- and long-term development of ISBS. I would like to highlight a few noteworthy names and the contributions:

- Mario Lamontagne, VP for Conference and Meetings, formed a committee to investigate proposals for students' conference scholarship, which will be reported during the Pre-Conference Meeting of ISBS2008.
- Duane Knudson, VP for Publications, has the ISBS Newsletter back on our tradition of two issues a year.
- Angus Burnett, VP for Public Relations, successfully consolidated several Sponsorships of ISBS.
- Ross Sanders, VP for Research and Projects, initiated the collaboration of ISBS with the U21

Sport and Exercises Sciences Group for the online courses in coaching science.

- John Ostarello, Secretary General, prepared the draft of the meeting minutes of the ISBS2007 Post-Conference Meeting and sent this out for confirmation by Board Members who attended the meeting
- Manfred Vieten, the Treasurer, made substantial progress in constructing the ISBS Archives System.

We can also expect that the coming months would be hectic for our all of us with the following events and activities:

- Election of new Executives and Directors (all members);
- Submission of proposals for the hosting of the ISBS2010 Conference in response to the invitational e-mail sent out in spring 2008 (all members)
- Review of applications for the ISBS Fellowship Award and nomination for the Geoffrey Dyson Award
- Review of papers submitted for presentation at the upcoming conference in Seoul

I am definitely looking forward to seeing you all soon in Seoul.

Youlian Hong, President



ISBS Awards

The ISBS has four kinds of awards: the Geoffrey Dyson Lecturer Award, Life Member, Fellow, and the Hans Gros New Investigator Award. This column will describe these awards and highlight last year's honorees.

The time has come to nominate candidates for Fellow of ISBS, Life Member of ISBS, and the Geoffrey Dyson Lecturer (for the 2009 ISBS Conference). Successful candidates will be announced at the 26th International Symposium on Biomechanics in Sport, Seoul, Korea, July 14-18, 2008.

Please read the criteria for selection below and forward any nominations you would like to make to me (Richard Smith, r.smith@usyd.edu.au) by Friday, 28 March, 2008. Only nominations submitted by this date will be considered by the ISBS Awards Committee for 2008. You can check the list of previous recipients at <http://www.twu.edu/biom/isbs/awards.htm>

Hans Gros New Investigator Award candidates use a check box on the paper submission form for the 2008 ISBS Conference to apply for consideration for this award. The criteria for this award may be read at <http://www.isbs2008.org/> under Call for Papers.

The criteria for each of the awards follow.

GEOFFREY DYSON LECTURER

The guidelines for selection of this - the most prestigious honour that can be bestowed by ISBS - are:

The candidate must have an international reputation in the field of sports biomechanics in keeping with the reputation of Geoffrey Dyson himself.

The candidate must have an interest in the applied nature of sports biomechanics and an ability to communicate with both the researcher and the practitioner.

A condition of acceptance shall be that the candidate delivers the Geoffrey Dyson Lecture personally.

LIFE MEMBER

This is a special membership category reserved for members who have made outstanding contributions to the Society. Elected by the Executive Council, a life member has all the privileges of membership but does not pay annual dues.

FELLOW

The Fellow award of the International Society of Biomechanics in Sports (ISBS) recognizes substantial scholarly and service contributions to

ISBS and sports biomechanics. ISBS members may apply to the Awards Committee for review for Fellow status by showing they meet the minimum requirements for the award using a template available from r.smith@usyd.edu.au. Members receiving the Fellow Award may use the title Fellow International Society of Biomechanics in Sports (FISBS).

Candidates for FISBS would normally have:

- (1) been an ISBS member for at least 4 consecutive years.
- (2) presented at least one paper each at two ISBS symposia.
- (3) published at least 5 sport biomechanics papers (minimum 3 as first author) in English, peer-reviewed scientific journals.

Papers submitted in support of Fellow nomination should be consistent with the ISBS focus on sport and bridging the gap between science and coach/athlete. Therefore submitted papers should include biomechanical principles applied to a sport or sports, recovery from sports injury, physical activity/exercise that could lead to improved performance. Candidates for Fellow should state why their papers are relevant to sports biomechanics if it is not clear from the title.

- (4) served ISBS as either, (1) conference host, (2) executive board member, (3) board director, (4) an executive member of the editorial board of Sports Biomechanics, (5) editor in chief of Sport Biomechanics journal or (6) a significant

contributor to the application of biomechanics in sport,

- (5) been nominated by a board member, executive member, or Fellow of the Society.

2007 Geoffrey Dyson Lecturer

We were privileged to have **Professor Ross Sanders** as the 2007 Geoffrey Dyson Lecturer presenting “Rock and roll rhythms in swimming” at the Ouro Preto Symposium. His professional goals of contributing to the knowledge of the international scientific community, disseminating knowledge to the community to meet community needs and to educate in a relevant and motivating way are amply acted out in his real life. He has over 100 full reviewed papers largely on his research theme of the development of rhythm and skill in movement. More than 20 times he has been invited to speak on his expertise. His research is supported by many large grants.

Ross’s application of biomechanics to sport is particularly outstanding with 30 applied papers and 23 reports, as the founding director of The Centre for Aquatic Research and Education (CARE) in the UK. He has also given extensive service to the ISBS as Member, Board of Directors, 1993-1998; President from July 1999 – July 2001; Past President to July 2002; Founding Editor of ‘Sports Biomechanics’ -2002-2004; VP Research and Projects – August 2004 to July 2006; July 2006-July 2008. In the words of his long time colleague Barry Wilson, Ross had a

“tremendous commitment to being a sports biomechanics scientist, extremely hard worker, an innovative and dedicated teacher”

Fellow ISBS

Congratulations to **Professor Duane Knudson** who received the award of Fellow of the International Society of Biomechanics at the 2007 International Symposium on Biomechanics in Sport at Ouro Preto. Duane Knudson, is Professor of Kinesiology at California State University at Chico. During his professional life he has received many other honors and awards, has over 50 publications in refereed journals and many papers in refereed proceedings, four books and many chapters in books particularly in tennis but also on human movement in general and many papers have an applied flavour. He has been successful in obtaining many grants to fund his projects. He has served the International Society of Biomechanics in Sports as Director, 2001-present, on the Awards Committee 2001-present, as Chair, Nomination Committee 2003-2004 and Scientific Committee ISBS Proceedings 2001-present, on the Editorial Board of Sports Biomechanics 2005-present

Hans Gros New Investigator Award

The Awards Committee had its usual difficult time in judging the many excellent papers presented for consideration for the Hans Gros NIA Award. This year we even had a tie for first place in the oral presentation category. Congratulations to the Hans Gros New Investigator Award winners listed below. They are pictured below, so please look for

them at future ISBS conferences and congratulate them on their achievement.

For best oral presentation

Equal First

Giulia Dona: Principal component analysis of knee angle waveforms during race walking.

Miriam Klous: Lower extremity joint loading in carved ski and snowboard turns.

Third Prize

Stelios Psycharakis: Rolling actions of shoulders and hips in freestyle swimming.

For best poster

First Prize

Eamonn Flanagan: Reliability of the reactive strength index and time to stabilization during depth jumps.

Second Prize

Yong Wei: Age-related sarcopenia: an electromyographic and mechanomyographic study.

Third Prize

Leonardo César Carvalho: Mechanical properties analyses of the gastrocnemius muscle electrical stimulated after immobilization.



VP Public Relations

I trust that the readers have had a good Christmas and New Year break and everyone is refreshed for another year of work in sports biomechanics. This column is going to be quite short but I will outline two matters I am currently dealing with.

Firstly, I am happy to announce that two of our sponsors have decided to extend their commitment to the ISBS. I would like to thank both Visol and Contemplas for their continued support of our society. This is great news.

Secondly, the ISBS Executive is currently working on an initiative to have exchange with the International Society of Biomechanics at their conferences. This is currently in the early stages of planning and I will have more information at a later date on this matter.

If you are from a society that wants some publicity through this forum, or think you can build a link with the ISBS, please don't hesitate in

contacting me.

Angus Burnett



Gold Sponsors



Silver Sponsor

Preview of XXVI ISBS Conference Seoul, South Korea

Dr. In-Sik Shin and the Korean Society of Sport Biomechanics (KSSB) warmly invites you to the 26th International Conference on Biomechanics in Sports in Seoul, Korea. ISBS 2008 will be held from July 14(Monday) to July 18(Friday), 2008 at Seoul National University, Seoul, Korea.

The scientific and social programs promise to be outstanding. Dr. Fred Yeadon will present the Geoffery Dyson Lecture and other keynote lecturers will be from Michiyoshi Ae, Timothy Derrick, Walter Herzog, John Ostrarello, Hermann Schwaneder, and Gerald Smith.

Original sports biomechanics research will be

presented in the following areas:

- Biomechanics of adapted and leisure sport
- Biomechanics of injury prevention & rehab
- Neuromuscular biomechanics
- Biomechanics in physical education
- Methodology of human movement studies
- Biomechanics in sport equipment design

Important Dates

Please see the conference website for more information: www.isbs2008.org.

March 31, 2008 Deadline for paper submission

April 30, 2008 Notification of initial reviews

May 15, 2008 Early Registration deadline and resubmission of revisions

Travel and Transportation

Participants arriving Seoul using international flights will mostly enter Korea through Incheon International Airport (ICN). ICN sits 52km west

of downtown Seoul. The most convenient way to reach the Seoul National University and main hotels is to take the limousine and buses. You may get information on limousines and buses, and purchase the bus ticket at the Transportation Information Counter (near the exit No. 2, 4, 9, 13) on the arrival floor (1st floor) of passenger terminal.

There will be a meeting point selected, where there will be volunteers there to give you warm welcome and to provide information and any assistance needed by the participants to get to the conference venue.

Two tours are planned for the conference. Tour 1 is of the city of Seoul including the Yongsan National Museum, a Kyoungbok Palace, and a Namsan Korean Traditional Village. Tour 2 explores the suburbs of Seoul and a Yongin Traditional Folk Village.



**XXVI Conference on Biomechanics in Sports
July, 14-18, 2008**

Seoul, South Korea

www.isbs2008.org

Seoul National University

Department of Physical Education

Shinlim-Dong, Gwanak-Gu

Seoul 151-742, South Korea

VP Research and Sponsored Projects

Opportunities in Authoring and Delivery of On-Line CPD

Further to the VP Research and Projects Report at the AGM focusing on opportunities for ISBS members to be involved in production of web-based continuing professional development (CPD), the required infrastructure has been consolidated. Two developments at the University of Edinburgh exemplify possibilities for ISBS members. The first is a contribution to the Postgraduate Programs in Sports Coaching offered by The University of Queensland (www.hms.uq.edu.au/sportscoaching) to suitably qualified coaches internationally. Edinburgh's contribution is a unit on strength and conditioning by Professor Mike Stone and Dr Tony Turner, to commence in September this year. The University of Queensland is also interested in material that is specific to particular sports. For example, the University of Edinburgh is producing units of interest to swimming coaches. CAPDM, a company that specialises in production and

delivery of CPD material (<http://www.capdm.com/capdmweb/app>) is converting the material provided by the academics into appealing and effective format compatible with the University of Queensland infrastructure. While interaction with the University of Queensland is necessary to maintain efficient record keeping, quality control, and seamless progress towards the ultimate qualification, the units offered by partner institutions are financially independent. For example, the income received from each student electing a University of Edinburgh unit is distributed according to a business model agreed by CAPDM and the University of Edinburgh. In addition to covering the production costs, income is apportioned to the institution and to the authors of the material.

The second possibility is to take the lead in developing new courses. For example, in addition to contributing units to the University of Queensland postgraduate programs, the University of Edinburgh is producing courses from certificate

to masters level specifically for swimming coaches. Similarly, ISBS members have an opportunity to utilise the existing CAPDM models to reduce greatly the workload associated with establishing a new CPD delivery infrastructure.

You may be wondering about the Coaches Info Service (CIS) and whether it plays a role in the above models. The CIS is now maintained by CAPDM. It will continue to be used as a 'free-of-charge' repository of information for sports practitioners but will also advertise the various on-line courses available. Also, students enrolled in the CPD courses can be referred to relevant material residing on the CIS as part of their coursework. Clearly, there is potential for editors and authors of CIS material to capitalise on that work in conjunction with the on-line CPD initiatives.

If you wish to explore the possibilities for your institution please contact me for more information.

Ross Sanders
r.sanders@ed.ac.uk

ISBS Election

The ISBS Constitution provides for the election of four (4) officers and eleven (11) directors in the year 2008. The Constitution also requires that a ballot be mailed to the members in April of each year. In order to meet these timelines, it is necessary to open the nomination process immediately. This is a particularly important year because a new President-Elect will be chosen. The President-Elect will serve for one year and then lead the Society as President for a two-year term. The President will have a great influence on the direction and activities of the Society, so I ask that you carefully consider your nominations.

The By-Laws of the Society states, "Only members in good standing may vote, stand for election or appointment to office." So, it is imperative that your membership dues are current.

The election process is detailed below.

Terms of office:

2008-2010

Officers to be elected (Two-year terms)

President Elect

Vice President of Publications

Vice President of Public Relations

Vice President of Research and Projects

Directors to be elected (Two-year terms):

Eleven Directors.

Nominations:

Self-nomination is permitted.

Current officers and directors may stand for re-election.

Before nominating another member, assure that the member is willing to serve.

Nomination Period:

5 March 2008 – 25 April 2008.

Candidate Statements:

Candidates may submit a statement of 100 words or less.

Candidates may submit a photo to accompany

their statement.

Deadline for nominations:

The deadline is Friday 25 April 2008

Submission of Nominations:

Nominations and self-nominations should be submitted to: john.ostarello@csueastbay.edu

Additional Information:

If you need additional information, please contact me:

Email: john.ostarello@csueastbay.edu

Telephone: 1-510-538-4811

ISBS Officers

- President: Youlian Hong, Chinese University of Hong Kong, Hong Kong (hermann.schwameder@sbg.ac.at)
- VP Awards: Richard Smith, University of Sidney, Australia (R.Smith@fhs.usyd.edu.au)
- VP Conferences and Meetings: Mario Lamontagne, University of Ottawa, Canada (mlamon@uottawa.ca)
- VP Publications: Duane Knudson, California State University, Chico, USA (dknudson@csuchico.edu)
- VP Public Relations, Angus Burnett, Curtin University of Technology, Australia (a.burnett@curtin.edu.au)
- VP Projects and Research: Ross Sanders, University of Edinburgh, United Kingdom (r.sanders@ed.ac.uk)
- Secretary General: John Ostarello, California State University, East Bay (john.ostarello@csueastbay.edu)
- Treasurer: Manfred Vieten, University of Konstanz, Germany (manfred.vieten@uni-konstanz.de)

ISBS Directors

2007-2009:

- Elizabeth Bradshaw, Australian Catholic University, Australia
- Gareth Irwin, University of Wales Institute, Cardiff, UK
- Justin Keogh, Auckland University of Technology, New Zealand
- Uwe Kersting, University of Auckland, New Zealand
- Hans Joachim-Menzel, Universidade Federal de Minas Gerais, Brazil
- Young-Tae Lim, Konkuk University, Korea
- Spiros Prassas, California State University-Hayward, USA
- Pamela Russell, Bridgewater State College, USA
- Lothar Thorwesten, University of Muenster, Germany
- Qing Wang, China Society of Sports Biomechanics, Beijing, China

2006-2008:

- Rafael Bahamonde, Indiana University-Indianapolis, USA
- Randall Jensen, Northern Michigan University, USA
- Giannia Giakas, University of Thessaly, Greece
- Chenfu Huang, Taiwan National Normal University, Taiwan
- Jian Xian Li, University of Ottawa, Canada
- Uwe Kersting, University of Auckland, New Zealand
- Laurie Malone, Lakeshore Foundation, USA
- Bridget Monroe, University of Wollongong, Australia
- Karen Roemer, Chemnitz University of Technology, Germany
- Mark Walsh, Miami University-Ohio, USA

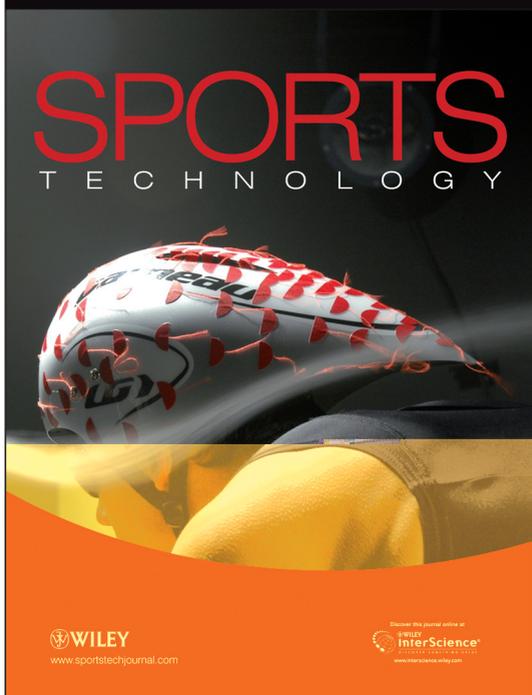
Editor's Note

Thank you to the ISBS members and officers that shared information with me for the newsletter. I especially invite you to share with me ideas and content for the newsletter. It would be nice to

share with our peer's lab, university, or national activities related to sports biomechanics in future newsletters. Please send suggestions, pictures, and columns to me at: dknudson@csuchico.edu

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Aims and Scope

Sports Technology is a unique source of information on all aspects of sports technology. This international journal aims to establish stronger links between industrial and academic research, and enhance communication between athletes, coaches, engineers, scientists, biomechanists, managers and administrators involved with sports and sports technology. Design and development of sports products and infrastructure requires close collaboration between all stakeholders, as well as good understanding of both life and sports sciences, principles of economy and engineering. Therefore it is only natural that a journal focusing on sports technology is inter- and transdisciplinary as well as holistic in its approach.

Sports Technology publishes articles that are classified either as scientific research articles (focusing on the scientific aspects of sports technology research) or technical research and development articles (focusing on the commercial product design and development aspects).

Each issue of the journal contains an attractive mix of articles (invited reviews, original peer-reviewed scientific articles and technical R&D articles, experts' opinions, book reviews, news from major events and industry) and generous use of color. In particular, major events will be highlighted, with rapid publication of results related to investigations during these events (such as from Olympic Games and World Championships).

Experienced editors supported by a first-class international Editorial Board from both academia and industry will ensure high-quality peer review and selection of only the very best articles for publication.

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Sports Aerodynamics Consultant, Mountain View, CA, USA

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- Review of tennis ball aerodynamics
- Cricket balls: properties, quality control and modeling
- Fusion Motion Capture: Can New Technology Optimise Athlete Performance in Alpine Ski Racing?
- Aerodynamic performance of the Nike SWIFT Spin cycling suits

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- Sports Products Development
- Sports Technology and Human Factors
- Sports Technology and Sustainability
- Sports Science and Engineering
- Sports Modelling and Simulation
- Sports Measurements and Instrumentation
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- Biomechanists
- Bioengineers
- Civil engineers
- Electrical and electronic engineers
- Computer scientists
- Kinesiologists
- Physiotherapists
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