

ISBS Newsletter

March 2010
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Table of Contents:

28 th ISBS Conference-Marquette Michigan, USA.....	2
ISBS Awards	3
ISBS Elections-2010.....	4
Preview 29th ISBS Conference Porto, Portugal	5
ISBS Sponsors	5
Biomechanics and Medicine in Swimming	6
ISBS Officers	6
ISBS Directors	7
Editor's Note.....	7
Lab Feature: Sport Performance and Biomechanics Laboratory, CUHK	8

28th ISBS Conference-Marquette Michigan, USA

Northern Michigan University is pleased to host the 2010 Congress of the International Society of Biomechanics in Sports, July 19-23. NMU is located in a stunning environment on the south shore of the world's largest freshwater lake, Lake Superior. Surrounded by miles of forests for hiking and biking, with beaches for swimming and paddling, Marquette is a vibrant town rich with culture and history. It has been selected one of a dozen "Distinctive Destinations" by the National Trust for Historic Preservation, ranked third in the United States for mountain biking, and a top 50 destination in the U.S. by Disney Family Vacations. Enjoy our friendly environment and the chance to share research and stories with fellow ISBS members at a fascinating conference.



Keynote lectures will be presented on Modeling Biomechanics, Sprint Training, Kicking in Soccer, Artistic Gymnastics, Baseball Pitching, Novel Techniques of Motion Analysis, and Paralympic Games—the New Frontier. Planned applied sessions include: Gymnastics, Nordic skiing, Olympic weightlifting, Feedback for athletes, and Motion Analysis. Also for the first time a thematic poster session on Disabled Sports will be convened.

In addition, a preconference symposium on Teaching Biomechanics will be held from 9:00 until 17:00 on Monday July 19. The symposium will open with a keynote and include; a panel discussion about teaching biomechanics on-line, a session on novel biomechanics laboratory

techniques, and a collaborative session on sample capstone projects that use *Dartfish* software. Participants will also have an opportunity to attend a series of roundtable discussions that address: Strategies for Teaching Students with Learning Disabilities, Possible Pedagogical Use of Social Networking, Meaningful Assessment, Syllabi Design and Course Content, and Approaches to Teaching Biomechanics. We look forward to your participation.

Continuing Education Units will be available from the National Strength and Conditioning Association for CSCS and CPT certified individuals; while the National Athletic Trainers Association has approved CEUs for certified Athletic Trainers.

For those wishing to enjoy the outdoors, camping is available in Marquette's Tourist Park, less than 2 km from the conference venue. If you wish, you can stay on-campus inexpensively with a twin room for \$18, or \$30 for a single room. There are also a variety of hotels prices ranging from \$60 to \$125.

Social activities will include the choice of an afternoon of adventure activities featuring hiking, mountain biking, canoeing/kayaking, rock climbing or touring an open pit iron mine. A picnic on the shores of Lake Superior will be followed by an evening cruise of the Pictured Rocks National Lakeshore.



Bring your family, as we have activities for them as well. Four 18-hole golf courses including one ranked the second best in Michigan and one of the top 10 new courses in the U.S. are on hand. Charter fishing on Lake Superior and fly fishing on numerous inland lakes and rivers can keep you

occupied for hours. The Upper Peninsula Children's Museum is open for the little ones and for snow sports enthusiasts the U.S. National Ski and Snowboard Hall of Fame is just west of Marquette. The Lake Superior Theatre in the downtown's lower harbor will have evening performances.

The weekend before the conference the Hiawatha Music Festival will take place in Marquette's Tourist Park. Each year, the festival features traditional-music styles that include bluegrass, old-time, Cajun, Celtic, acoustic blues and folk—including singer/songwriters—and dance. Main stage acts include nationally known performers as well as regional and local favorites. The weekend after the conference will see the Outback Art Fair

opening on the shores of Lake Superior only 1 km from the conference venue.

Whether you want to explore the forests, shop, or relax on the beach, Marquette will have something everyone in your family will enjoy when you visit this summer. Check the conference Web site for more information. www.nmu.edu/isbs/



ISBS Awards

Dr. Gareth Irwin took over as ISBS Vice President (Awards) from Dr. Richard Smith (University of Sydney) after the 2009 conference in Limerick. The roles of VP for Awards include the organization and management of the election for the Geoffrey Dyson Award, Hans Gros New Investigators Award (oral and posters), and to review the applications/nominations for Fellow and Life Members.

The **Geoffrey Dyson Award** of the International Society of Biomechanics in Sports recognizes sport scientists who, throughout their professional careers, bridge the gap between biomechanics research and practice in sport. It is the most prestigious award of ISBS because it is the recognition of individuals who embody and carry out the mission of the Society. Professor Barry Bates will be receiving the award at the 2010 ISBS conference and we welcome your nominations for this prestigious award.

The **Hans Gros New Investigators Award (NIA)** is always a significant part of the ISBS conference. The purpose of the award is to recognise new researchers and to encourage them to become productive members of the Society by expanding the knowledge base of sports biomechanics through study and dissemination of information.

This year at the 2010 ISBS conference (Northern Michigan University) the NIA award will remain a central feature with a short list of speakers presenting in dedicated New Investigator sessions. A preselected committee of established academics will be in attendance at each session where the top three winners will be announced and invited to present again in a final session directly after the young blood key note. Similarly to previous years there will also be the NIA for poster presentation assessed by the same awards committee.

The ISBS awards Committee for 2010 include: Dr. Elizabeth Bradshaw, Australia; Dr. Bruce Elliott, Australia; Dr. Gareth Irwin, Wales; Dr. Duane Knudson, USA; Dr. Jing Xian Li, Canada; Dr. Wolfgang Potthast, Germany;; Dr. Ross Sanders, Scotland; Dr. Hermann Schwameder, Germany; Dr. Cassie Wilson, England.

Winners of the Hans Gros NIA will be announced at the closing Banquet along with **ISBS Life Members**, awarded to those members who have made outstanding contributions to the Society and **Fellows of the Society**, reserved for individuals who have made outstanding contributions in biomechanics related to sports over a period of years. The highlight of the evening will be the presentation of the Geoffrey Dyson Award for

2010. Information on past winners can be found on the awards link on the ISBS web site <http://www.isbs.org/>.

I look forward to seeing you at ISBS 2010 in Marquette, Michigan, USA. If anyone has any questions about nominations please do not hesitate to contact me.

Dr. Gareth Irwin, FISBS
University of Wales Institute, Cardiff
(girwin@uwic.ac.uk)

ISBS Elections-2010

The ISBS Constitution provides for the election of four (4) officers and ten (10) directors in the year 2010. In order to meet the election timelines, it is necessary to begin the nomination process immediately. The officers and directors have considerable influence on the direction and activities of the Society. It is important, therefore, to seek individuals who are responsible and willing to serve the Society.

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. For membership information and dues payment go to:

<http://www.hhp.txstate.edu/isbs/membership.htm>

Terms of office:

2010-2012

Officers to be elected (Two-year terms)

President Elect

Vice President of Publications

Vice President of Public Relations

Vice President of Research & Projects

Directors to be elected (Two-year terms):

Ten 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:

29 March 2010 – 25 April 2010.

Candidate Statements:

Candidates are encouraged to submit a statement of 100 words or less. (In order to be fair to all candidates, statements longer than 100 words will be truncated.)

Candidates are encouraged to submit a photo to accompany their statement.

Deadline for nominations:

The deadline is Sunday 25 April 2010 at 2400 PDT San Francisco, CA.

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:

John Ostarello

john.ostarello@csueastbay.edu

Telephone: 1-510-538-4811

Preview 29th ISBS Conference Porto, Portugal

Get ready for the second IBSB conference hosted in Portugal! The 2010 ISBS conference will be held at the University of Porto. Dr. J. Paulo Vilas-Boras (Porto University, jpvb@fade.up.pt) and Dr. Antonio Prieto Veloso (University of Lisbon, apveloso@fmh.utl.pt) are conference co-chairmen. The dates for the conference will be announced soon following consultation with ISBS.

Applied sessions are planned in swimming, track & field, and biomechanical modeling. There will also be several outstanding keynote presentations as well as the social and cultural events that ISBS is known for.

Look for more information in the next newsletter and the ISBS web site.



ISBS Sponsors

ISBS would like to thank our commercial partners who provide sponsorship for the society. At press time the following have renewed contracts as sponsors of ISBS: Contemplas and Simi Motion.



Remember to consider these fine vendors of sports biomechanics research equipment and software when updating your lab. We would also like to thank Dr. Herman Schwameder VP of Public Relations for working with our sponsors to support ISBS.

Biomechanics and Medicine in Swimming

The International Symposium for Biomechanics and Medicine in Swimming is the largest and most prestigious scientific congress in the world for aquatic sports and activities. The congress, which is held every four years, gathers the world's leading researchers, educators and coaches in swimming and aquatic sciences. In 2010, we celebrate the 40th anniversary of the congress. June in Norway is very beautiful and the surroundings of the congress venue will ensure a wonderful time at the swimming scientific symposium. We welcome papers from a [variety of scientific disciplines in the field of aquatic activities and swimming](#), not only Biomechanics

and Medicine. For more information visit the conference web site at:

www.nih.no/bms2010

**XIth International Symposium for
Biomechanics and Medicine in Swimming
June, 16-19, 2010**

Oslo Norway

Host: Per-Ludvik Kjendlie



ISBS Officers

- President: Manfred Vieten, University of Konstanz, Germany (manfred.vieten@uni-konstanz.de)
- Past President: Youlian Hong, Chinese University of Hong Kong, Hong Kong (hong.youlian@gmail.com)
- VP Awards: Gareth Irwin, University of Wales Institute, Cardiff (girwin@uwic.ac.uk)
- VP Conferences and Meetings: Peter Chenfu Huang, Taiwan National Normal University, Taiwan (t08001@ntnu.edu.tw)
- VP Publications: Duane Knudson, Texas State University, USA (dknudson@txstate.edu)
- VP Public Relations: Herman Schwameder, University of Karlsruhe, Germany (ej107@sport.uka.de)
- VP Projects and Research: Ross Sanders, University of Edinburgh, UK (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

2009-2011:

- Rafael Bahamonde, Indiana University-Indianapolis, USA
- Elizabeth Bradshaw, Australian Catholic University, Australia
- Ian Bezodis, University of Wales Institute Cardiff, UK
- Daniel Fong, Chinese University of Hong Kong, China
- Dave Fortenbaugh, American Sports Medicine Institute, USA
- Justin Keogh, Auckland University of Technology, New Zealand
- Hans Joachim-Menzel, Universidade Federal de Minas Gerais, Brazil
- Pamela Russell, Bridgewater State College, USA
- Gongbing Shan, University of Lethbridge, Canada
- Pamela Russell, Bridgewater State College,

USA

- Bing Yu, University of North Carolina, USA
- Qing Wang, China Society of Sports Biomechanics, Beijing, China

2008-2010:

- Kevin Ball, Victoria University, Australia
- Randall Jensen, Northern Michigan University, USA
- Young-Hoo Kwon, Texas Woman's University, USA
- Jian Xian Li, University of Ottawa, Canada
- Wolfgang Potthast, Cologne Sport University, Germany
- Karen Roemer, Michigan Tech University, USA
- Antonio Veloso, Technical University of Lisbon, Portugal
- Mark Walsh, Miami University-Ohio, USA
- Cassie Wilson, University of Bath, UK

Editor's Note

Thank you to the ISBS members and officers that shared information with me for the newsletter. I would like to encourage ISBS members to submit ideas and content for the newsletter. It would be nice to share with your peer's lab, university, or national activities related to sports biomechanics in future newsletters. Please send suggestions, pictures, and columns to me at: dknudson@txstate.edu.

Below are the answers to last issues trivia contest. Some ISBS members were able to answer one of these questions, but nobody responded with two correct answers. See you in Marquette.

What former ISBS executive is shown here in the off-Broadway production of "The Music Man?"
 Answer: *John Blackwell (Secretary General & 2001 Conference Host)*



Graduate students from what sports biomechanics research powerhouse university continue their applied research on cricket using ISBS conference umbrellas and foam balls?

Answer: *University of Western Australia*



Sport Performance and Biomechanics Laboratory, The Chinese University of Hong Kong



The Sport Performance and Biomechanics Laboratory (SPBLab) was established in December 2008. It affiliates with The Hong Kong Jockey Club Sports Medicine and Health Sciences Center and the Department of Orthopaedics and Traumatology under the Faculty of Medicine. It houses a variety of biomechanics, physiology and sports medicine equipment for research, education and clinical services. The equipment include a 16-camera motion analysis system, 5 force plates, pressure insole system, electromyography system, individual pressure sensor, accelerometer, gyrometer, torque gauge, heart best monitor, blood lactate analyzer, oxygen consumption analyzer, as well as a series of self-fabricated biomechanical and biomedical devices. In addition, we make use of the facilities of our teaching hospital for research. The facilities include X-ray imaging, magnetic resonance imaging, computer-tomography scan, dynamometer, cadaver biomechanics laboratory, navigation surgery system, physiotherapy clinic, and occupational therapy clinic.

The laboratory is supervised by Daniel TP Fong, who has secured over HKD 6.5 million (USD 835,000) in funding to support injury prevention research since 2006. Now we have ten research students and staff, covering a spectrum of different specialties, from physics, mechanical and biomedical engineering, sports and human body biomechanics, kinesiology, physical education, exercise physiology, and strength and conditioning. The major research themes are the understanding and prevention of lower extremity sport-related injuries, disabled sports biomechanics, and also injury prevention and performance enhancement program for professional football players.

For more information, please contact Prof Daniel Fong (dfong@ort.cuhk.edu.hk) or visit the laboratory homepage at <http://www.ort.cuhk.edu.hk/spblab>. Prof Fong is a Fellow of International Society of Biomechanics in Sports (FISBS), and is also serving as a member of the Board of Directors of International Society of Biomechanics in Sports (<http://www.isbs.org>) for 2009-2011.