

# ISBS Newsletter

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## President's Message

This year's main ISBS event, our annual conference took place in Limerick, Ireland. The event included well over 300 oral and poster presentations and is likely the largest conference of sports biomechanics in 2009 worldwide. The variety of aspects reached from theoretical considerations to application and the specific topics for coaches and practitioners. The conference truly covered the full spectrum of sports biomechanics and the ISBS mission to "bridge the gap between researchers and practitioners." The complete proceedings and the program are available on the official conference homepage at <http://www.isbs2009.com/>. A search for specific topics, authors, or keyword is also possible via our open access ISBS proceedings archive at <http://w4.ub.uni-konstanz.de/cpa>.

A successful conference covers both good science and the flavors of the hosting country and region. This year in Limerick participants were able to experience a beautiful landscape/environment, the people and their traditions and the hospitality of a northern European country. The visit to the **Cliffs of Moher** with its harsh northern winds and the unique limestone **Burren area** (UNESCO World Heritage Site) were highlights, as well as the festive dance, traditional barbeque and closing banquet. Many thanks go to the conference hosts Drew Harrison and Ross Anderson, to the other organizers as Ian Kenny, and to the University of Limerick for providing outstanding convention facilities and service.

The preparation of such a conference takes two years. First the organizers have some meetings in addition to their jobs as researchers and teachers; later down the timeline to the conference organizing becomes almost a fulltime job. I am expressing this here because ISBS conferences very much rely on the complementary work of people like Drew, Ross, and Ian. I encourage everyone who thought about holding a future conference to contact the Vice President of Conferences **Chenfu (Peter) Huang** (email: [t08001@ntnu.edu.tw](mailto:t08001@ntnu.edu.tw)). Next year we will meet for the 28<sup>th</sup> ISBS conference in Marquette, Michigan,

USA. The host will be **Randall Jensen** (email: [rajensen@nmu.edu](mailto:rajensen@nmu.edu)).

In this short message I also like to say thanks to all those individuals contributing to the ongoing success story of ISBS, specifically those who left office after serving in the last years:

- former President Youlian Hong
- former Vice President of Awards Richard Smith
- former Vice President of Conferences Mario Lamontagne
- former Vice President of Public Relations Angus Burnett

As a last point I want to encourage all members to get actively involved in the work of ISBS. If you have ideas to enhance the work and visibility of ISBS please contact the respective officers. All contacts are available at our homepage <http://www.isbs.org>. If you want to work within the team of directors and officers please stand for elections at the beginning of next year. Therefore, contact the Secretary General **John Ostarello** (email: [john.ostarello@csueastbay.edu](mailto:john.ostarello@csueastbay.edu)) and tell him what position you are interested in. Look forward to your participation.

Manfred Vieten, Ph.D.

President ISBS



## Summary 27th ISBS Conference Limerick, Ireland

On 17<sup>th</sup> August 2009, the ISBS2 2009 Conference in Limerick opened with dash of Irish Musical Culture from the National Harp Orchestra. Professor Don Barry, President of the University of Limerick, extended a warm welcome to nearly 300 delegates and Professor Youlian Hong ISBS President, formally opened the conference. For the ISBS 2009 organising committee, this was the culmination of two years of preparations and we were delighted to see so many of our friends and colleagues visiting us on our home patch. The session was rounded off by an outstanding keynote presentation by David Kerwin of University Wales Institute Cardiff, UK, focusing on the development of technologies to monitor athletics performance.

Our intention from the outset was to place a special focus on the Applied Sessions and we were delighted to see so many delegates, coaches, teachers and other practitioners taking part in all the Applied Sessions. Our hope had been that the Applied Sessions would leave a positive legacy and an understanding of the importance of Sports Biomechanics amongst practitioners in Ireland. The Applied Swimming Session attracted over 80 coaches, mostly from the National Irish Governing body, Swim Ireland and they were treated to a full day of high quality presentations from over 20 invited speakers and a practical session in the University of Limerick's 50 m pool. We are grateful to everyone who made this session so successful, especially Ross Sanders who stepped forward in September 2008 and volunteered to chair the session and develop the programme. Thanks Ross, it really was worth all the effort!

The other Applied Sessions were equally successful in their own ways and we are grateful to the chairs and presenters of the Rowing Session, the Coaching Session, the Strength and Conditioning Session. Special mention to Andrew Tysz who will be remembered for his super-cool clean and jerk of around 50 – 60 kg while giving verbal feedback and coaching information. I know 50 -60 kg isn't really heavy, but by coaching while performing, you made it look all so easy Andrew!

The last applied session was on Data Analysis Techniques chaired by UL's new Adjunct Professor Joseph Hamill. The session was scheduled on the penultimate session of the programme and we thought it might have limited appeal. We originally expected around 35 people would attend, but to our surprise the session attracted over 85 delegates. This shows that ISBS delegates have great staying power! In hindsight, we learned how much work is required to provide Applied Sessions with a truly strong applied focus. We also realise how much expertise there is within our Society and the willingness of members to help the Society by sharing their expertise. This goodwill amongst the members is something ISBS should be rightly proud of.

ISBS conferences always feature cultural as well as scientific aspects and we prepared a programme of visits and cultural events which we hoped would cater for the varied tastes of all the delegates. The main social events were the visit to the Cliffs of Moher and the Burren, the Irish BarBQ, and the Closing Banquet. We were treated to some typically wet and windy Irish summer weather for the trip to the Cliffs and the rain was spectacular on the night of the BarBQ but it didn't seem to dampen the spirits of the delegates. The covered outdoor area for the BarBQ protected us all from the rain while the Music and Irish Dancing warmed the atmosphere. Add a pint or two of Guinness and "everything was grand".

The scientific programme was of a high standard and for this, we are grateful to the Scientific Committee for all their work in reviewing papers and advising authors on corrections. Nearly 350 papers were submitted and just under 300 were published making ISBS 2009 one of the largest scientific programmes in recent years. The proceedings were 940 pages and this is a great credit the ISBS members who make the scientific proceedings through the work of their experimental research, analysis and reporting. The Scientific Committee for ISBS 2009 had to work especially hard due to the large number of submitted papers and we must acknowledge the

generosity of these ISBS members for freely giving so much of their valuable time to ensure the scientific quality of the conference. Many thanks to you all!

ISBS 2009 has now come and gone and we all took a break from ISBS 2009 issues for a few weeks and launched ourselves back into our teaching and research roles in University of Limerick. ISBS 2009 will leave our team with very positive memories for many years to come. Now we are returning to the unfinished business, like updating the Webpage, reviewing the successes and learning from the shortcomings. We would like to take this opportunity however, to thank again everyone who helped us in the organisation and delivery of the ISBS 2009 event. We wish to thank all the keynote presenters (David Kerwin, Clare Milner, Albert Gollhofer, Bruce Elliott, Adamantios Arampatzis, Young-Hoo Kwon and Cassie Wilson), the Applied Session Chairs (Ross Sanders, Duane Knudson, Randall Jensen, Richard Smith and Joseph Hamill) and of course all the applied session presenters. Without the generous input from these presenters the programme would not have been possible.

We are grateful also to our sponsors and exhibitors for the important contribution they made to the conference. It was great to see a busy exhibition especially at this time of economic recession. We wish to thank the ISBS for allowing us to host the conference and we hope our efforts met the expectations you trusted to us. I wish to thank my colleagues on the ISBS 2009 organising committee, our colleagues in Plassey Campus Centre, Limerick Travel and the many student helpers who worked tirelessly throughout the week. It was a tough two years but we all feel it was worth the effort. To those members considering hosting in the future, I would offer you encouragement to step forward. The effort required to host an ISBS conference is huge but

it is well worth effort. I will look at future conferences in a different light now and appreciate the incredible effort that is put in from so many people especially the members of the Society. It is you, the members that make our conferences successful events.

Thanks a Million to you all.

Drew Harrison  
Co Chair: ISBS 2009



Andrew Tysz Raising the bar at the Applied Session on Strength and Conditioning.



ISBS 2009 Delegates at the Applied Rowing Session in the University Rowing Tank.

## ISBS Board Update

At the post conference meeting the ISBS board addressed many issues, but two of the most important were the location for the 2011 conference and the format for ISBS conference papers.

The board voted to accept a proposal to host the 2011 ISBS conference in Porto, Portugal. The proposal from the Dr. Paulo Vilas-Boas (Porto University) and Dr. Antonio Veloso (Technical University of Lisbon).

The board also voted to replace the “works in progress” paper with a structured abstract. Beginning with the 2010 conference in Marquette, Michigan there will be only two kinds of papers accepted for presentation and publication in the ISBS proceedings: full papers (up to 4 pages) and structured abstracts (2 pages).

The format and style of structured abstracts are the same as full length manuscripts (see spacing, margins, font specifics in the instruction for full papers). Following the **TITLE**, authors and

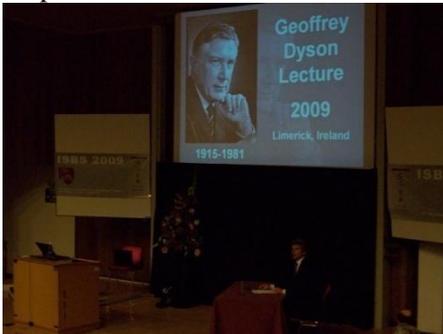
affiliations, the paper is structured under the following headings: **KEY WORDS, INTRODUCTION, METHODS, RESULTS AND DISCUSSION, CONCLUSION,** and **REFERENCES.** Structured abstracts can be no longer than two A4 pages in length and there is no 10 line abstract in a structured abstract.

This information and sample papers are available on the ISBS web site under “Annual Conferences” and “Instructions for Authors.”

## 2009 Awards

The 2009 ISBS conference in Limerick hosted the presentation of several awards. Thank you to Richard Smith outgoing VP of Awards and the awards committee for their hard work.

Dr. Albert Gollhofer (University of Freiburg) received the Geoffrey Dyson Award. He presented an outstanding lecture on the functional role of proprioceptive feedback in movement.



Four ISBS members received the Fellow Award. They are pictured from left to right: Daniel Fong, Herman Schwameder, Gareth Irwin, and Richard Smith.



Several new investigators were recognized out of an outstanding pool of candidates. The Hans Gros New Investigator Award for oral presentation was won by Neil Bezodis (University of Bath). The top award for a poster presentation was won by Eamonn Flanagan (University of Limerick). Second and third place for oral presentations were won by Matthew Sweeney and Danielle Formosa. Second and third place for power presentations were won by Amanda Silvatti and Amy Scarfe.



## 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.

## Preview of 28th ISBS Conference Marquette, Michigan

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 shore of the world's largest freshwater lake, Lake Superior. Surrounded by miles of forests and mountains for hiking and biking, beaches for swimming and paddling, Marquette is a vibrant town rich with culture and history and ripe for shopping and relaxing. Enjoy our friendly environment and the chance to share research and stories with fellow ISBS members at a fascinating conference.

Planned applied sessions include: Gymnastics, Rock Climbing, Olympic Weightlifting, and Motion Analysis. In addition, a preconference symposium on Teaching Biomechanics will be held from 9:00 until 15:00 on Monday July 19<sup>th</sup> in cooperation with the National Association for Sport and Physical Education. Check the conference web site in December 2009 for more information and details about the conference.

[www.nmu.edu/isbs/](http://www.nmu.edu/isbs/)



**XXVI Conference on Biomechanics in Sports  
July, 19-23, 2010**

**Marquette, Michigan, USA**

Northern Michigan University

Department of HPER

**Conference Host:** Dr. Randall Jensen



## ISBS Officers

- President: Manfred Vieten, University of Konstanz, Germany ([manfred.vieten@uni-konstanz.de](mailto:manfred.vieten@uni-konstanz.de))
- VP Awards: Garteth Irwin, University of Wales Institute, Cardiff ([girwin@uwic.ac.uk](mailto:girwin@uwic.ac.uk))
- VP Conferences and Meetings: Peter Chenfu Huang, Taiwan National Normal University, Taiwan ([t08001@ntnu.edu.tw](mailto:t08001@ntnu.edu.tw))
- VP Publications: Duane Knudson, Texas State University, USA ([dknudson@txstate.edu](mailto:dknudson@txstate.edu))
- VP Public Relations: Herman Schwameder, University of Karlsruhe, Germany ([ej107@sport.uka.de](mailto:ej107@sport.uka.de))
- VP Projects and Research: Ross Sanders, University of Edinburgh, UK ([r.sanders@ed.ac.uk](mailto:r.sanders@ed.ac.uk))
- Secretary General: John Ostarello, California State University, East Bay ([john.ostarello@csueastbay.edu](mailto:john.ostarello@csueastbay.edu))
- Treasurer: Manfred Vieten, University of Konstanz, Germany ([manfred.vieten@uni-konstanz.de](mailto: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

### 2008-2010:

- Rafael Bahamonde, Indiana University-Indianapolis, USA
- 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](mailto:dknudson@txstate.edu)).

I would like to conclude this issue with a trivia contest. All ISBS members are encouraged to email me their responses to the following questions. Answers will appear in the next issue of the newsletter. Who knows, there could be prizes at the Marquette conference? Turn the page for your ISBS trivia quiz.

Question 1: What former ISBS executive is shown here in the off-Broadway production of “The Music Man?”



Question 2: Graduate students from what sports biomechanics research powerhouse university continue their applied research on cricket using ISBS conference umbrellas and foam balls?





## **Assistant/Associate/Full Professor Exercise Science Program**

**The George Mason University School of Recreation, Health and Tourism invites applications for a nine-month tenure-track faculty appointment (open-rank) in the Exercise Science Program beginning August 2010.**

Responsibilities: Primary responsibilities include teaching undergraduate and graduate courses (e.g. biomechanics, motor control, exercise physiology, sport nutrition, motor learning, and/or research methods); maintaining an active line of research and publication record in area of expertise; and securing external funds. Additional responsibilities include serving on school, college, and university committees; developing professional partnerships with public and private agencies; and contributing to the continued development and delivery of the Exercise Science program.

**Qualifications: Applicants must have completed a doctorate in Exercise Science or a closely related field. Candidates must demonstrate potential for scholarly activity, contribute to collaborative interdisciplinary research, and show a strong commitment to teaching and advising undergraduate and graduate students.**

George Mason University, recognized internationally for its innovation, diversity and entrepreneurial spirit, is a state supported university located in the vibrant northern Virginia Washington, D.C. metropolitan area. George Mason University currently enrolls approximately 30,000 students in undergraduate, master's and doctoral programs. The university has emerged in the last decade as one of the premier institutions of higher learning in the state and the nation.

Salary: Commensurate with qualifications and experience.

Application Process: Candidates must apply online at <http://jobs.gmu.edu> for position **F7005z** and attach a letter of interest, current vitae, and references.

Deadline: Review of applications will begin Monday, November 1, 2009, and continue to be accepted until the position is filled.

For further information please contact: Search Committee Chair Dr. Shane Caswell, School of Recreation, Health and Tourism, George Mason University, 10900 University Boulevard, MS 4E5, Manassas, VA, 20110, 703-993-4638 (voice), 703-993-2025 (fax), [scaswell@gmu.edu](mailto:scaswell@gmu.edu)

George Mason University is an equal opportunity/affirmative action employer committed to meeting the needs of its increasingly diverse student body through appropriate personnel practices and procedures. Nominations of, and applications from, outstanding candidates are invited. Applications from women, minority candidates and persons with disabilities are especially encouraged.