

# ISBS Newsletter

October 2008  
(Vol. 24, No. 2)



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## President's Message

Dear ISBS members,

The 26th International Conference on Biomechanics in Sports (ISBS2008) was successfully conducted on July 14-18, 2008, in Seoul, Korea. First please allow me to extend my sincere thanks to our conference host, the Seoul National University, for hosting the conference. I would also like to extend my sincere thanks to Dr. Shin, Chairman of Organizing Committee of ISBS2008 and the President of Korean Society of Sports Biomechanics and his working team for their hard work in organizing this conference. I am sure all conference participants would all agree with me that the most impressive and unforgettable event during the conference was the Korea Night in which more than 300 people representing around 30 countries and regions got together and play the traditional Korean Drum. I am therefore proud to say that the ISBS not only provides a platform for the exchange of knowledge and experiences in bridging the gap between sports theory and practice but also promotes the exchange of culture and fosters camaraderie among sports biomechanists all over the world.

In addition to academic and social activities, the 26th ISBS Conference also provided an opportunity for the Board and the membership to plan for future activities and discuss some important ISBS issues such as the ISBS Constitution and By-Laws, the ISBS Logo, and the Student Travel Awards. Both the By-Laws Committee and Logo Committee have been formed and the timeline of each committee's work schedule has also been proposed. The ISBS had agreed upon to provide two 600 Euro Student Travel Awards starting this year. Likewise, it accepted the proposal submitted by Dr. Randell Jensen to host the 28th International Conference on biomechanics in Sports in 2010 in Northern Michigan University, USA.

During the conference, we received very sad news from Barbara A. Gowitzke that her husband David B. Waddell in June after a lengthy battle with colon cancer. David was awarded Life Membership in ISBS mainly because of his significant role in re-writing the Constitution and By-Laws of our organization in 1986. For several years, he served as a forward-thinking member of the Board of Directors. David will be remembered mostly as a man who encouraged the society to believe in itself and its mission. His passing is undoubtedly an immense loss to the society. The society expresses its deepest sympathy to Barbara and the rest of David's loved ones. Moreover, during the Annual General Meeting, members unanimously agreed to organize a "David B. Waddell keynote lecture" on racket sports. This will be conducted during the 27th ISBS conference next year in Limerick to honor his contributions to the game of badminton.

I look forward to seeing you again in the 27th ISBS Conference in Limerick, Ireland.

Youlian Hong, Ph.D.  
President ISBS



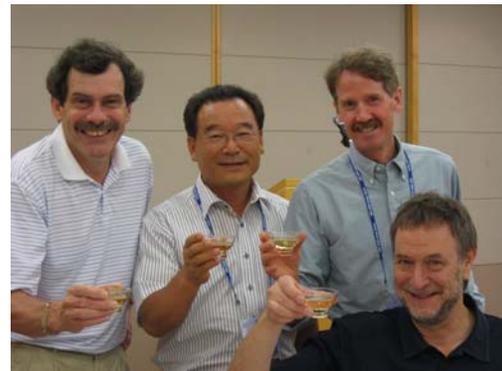
## Summary XXVI ISBS Conference Seoul, South Korea



Over 300 people attended the XXVIth Conference on Biomechanics in Sports in historic Seoul, South Korea. The conference featured outstanding keynote lectures and scientific program. There were 84 oral presentations and 84 poster presentations. The conference was hosted by Dr. In-Sik Shin, the Korean Society of Sport Biomechanics, and Seoul National University.



Delegates enjoyed historic tours and breathtaking demonstrations of Korean culture. As always the social program and conference banquet was an outstanding event of social and professional engagement. Please enjoy these photos and thank you to the hosts of this outstanding ISBS conference. Can you name the Dyson Lecturers who are pictured displaying their artistic skills with stringed instruments?



## ISBS Awards

Dr. Fred Yeadon (Loughborough University, UK) received the 2008 Geoffrey Dyson Award. He presented an engaging summary of this outstanding research in a paper entitled: *Applications of modeling to the improvement of*

*sports technique* at the Seoul ISBS Conference.

At the Seoul conference ISBS also presented Dr. Manfred Vieten (University of Konstanz, Germany) the Life Member Award. Manfred has

made outstanding contributions to the society through his service as a conference host, treasurer, and webmaster. Most recently he has lead the effort to put *ISBS Proceedings* online as an open access journal hosted at the University of Konstanz. Thank you Manfred for your numerous contributions to ISBS!

The 2008 Hans Gros New Investigator Award was presented to Enzo Preatoni from the Dipartimento di Bioingegneria, Politecnico di Milano (Italy). His award winning paper was entitled: *Nonlinear analysis of race walking gait: movement variability, entropy and motor skill assessment.*

The ISBS Executive Council approved the Awards Committee recommendation of Dr. Albert Gollhofer (University of Freiburg, Germany) to be the Dyson Lecturer at the Limerick ISBS Conference in 2009.

The Awards Committee welcomes nominations from the membership for the Dyson, Fellow, and Life Member awards. Contact the VP of Awards is Richard Smith if you have nomination questions or would be willing to serve on the Awards Committee.

## Thank You

ISBS would like to thank our sponsors for their continued support of the society: Novel, Visol, and Contemplas. Please support these important partners of ISBS.



## ECU Biomechanics Laboratory

*Over the years ISBS newsletters have featured summaries of sports biomechanics laboratories. Sports biomechanics laboratories are a reflection of the country, region, and scholars that work there. I asked Angus Burnett to tell us about the sport science labs at Edith Cowan University. ECU has quietly created several labs creating a world-leading research center focused on sport biomechanics and strength and conditioning.*

The Edith Cowan University (ECU) Biomechanics laboratory is part of the world-class facilities within the School of Exercise, Biomedical and Health Sciences. The Joondalup campus of ECU is located approximately 25kms north of the city of Perth, Western Australia. Former ISBS President (1999-2001), Professor Ross Sanders, was the first Biomechanist employed at ECU and designed our current laboratory. After Ross departed to the University of Edinburgh, I was employed between 2000-2005, then Associate Professor John Cronin was employed between 2006 and 2007. Tony Blazeovich from Brunel University and I were employed in January 2008.

The Biomechanics laboratory at ECU is very well equipped, and with respect to the main pieces of Biomechanics equipment, we have:

10 camera MF-F20 Vicon-Peak motion analysis system

3 Kistler Force Plates

Selection of EMG systems (Zero-wire, Grass amplifiers and Mega Electronics data logger)

Zelocity Pure Launch Golf Monitor

Velotron Cycle Ergometer

Portable Force Plates (Fitness technologies, Quattro)

Cybex/Biodex Isokinetic Dynamometers

These, and other pieces of equipment, are utilised in the teaching program (one unit at each of the 2<sup>nd</sup> and 3<sup>rd</sup> year levels in addition to a postgraduate Biomechanics unit).



We currently have a very active research program and our interests include:

*Associate Professor Angus Burnett:*

Sport Biomechanics (Cricket, Golf and Olympic Lifts in Particular)

Low Back Pain in Sport and Exercise and Sports Biomechanics

Spinal Biomechanics in Low Back Pain Management.

*Associate Professor Anthony Blazevich:*

Neuromuscular adaptations to strength training

Muscle architectural adaptations to training

Genetic and training factors influencing strength, speed and endurance performance

Optimization of training plans for athlete and clinical populations.

There is also a strong research focus in Strength and Conditioning within the Exercise and Sports Science discipline and this involves other staff such as Professor Robert Newton, Associate Professor Ken Nosaka, Dr Michael McGuigan and Dr Michael Newton. The Strength and Conditioning and Exercise Physiology laboratories are also extremely well equipped.

We also have a number of local, national and international collaborations and these include:

School of Physiotherapy, Curtin University of Technology

Brunel University, United Kingdom

Royal Australian Air Force (RAAF)

English Cricket Board

Neurocom Balance Master

LabVIEW Software

Dr. Angus Burnett

## Preview of XXVII ISBS Conference Limerick, Ireland

**ISBS 2009**  
**University of Limerick, Ireland**  
**17<sup>th</sup> – 21<sup>st</sup> August 2009**

**The Venue:** The 27<sup>th</sup> annual ISBS conference is being held in Limerick, Ireland. Limerick is often referred to as Ireland's 'sporting city.' The University of Limerick is also an ideal venue for the ISBS conference as it is Ireland's foremost

university location for sport and sports science education. The Biomechanics Research Unit at the University of Limerick can be considered the leading centre for sports biomechanics teaching and research in Ireland. The unit comprises a largest community of applied sports biomechanics lecturers and postgraduate researchers in Ireland. We look forward to welcoming delegates to the University of Limerick campus which is situated

close to the historic city of Limerick on the picturesque banks of the river Shannon.

**The Conference Programme:** It is our intention is to provide a four-day conference which will be remembered for the scientific quality of the proceedings, the friends made and reacquainted, and the traditional Irish welcome that will encourage a return visit. The conference programme will feature a full programme of keynote lectures, thematic oral and poster presentations. However, in recognition of the ISBS mission to bridge the gap between practitioners and scientists, we intend to provide a novel and interesting programme of applied sessions which will attract scientists, coaches and practitioners alike. The applied themes include: Swimming biomechanics, Biomechanics in Rowing, Biomechanics, Biomechanics in Strength and Conditioning and Data analysis in Biomechanics. The conference programme will also include the David Waddell Memorial Keynote Lecture. In addition to the very full scientific schedule, conference will also include an exciting social programme which will allow delegates the chance to enjoy all that is best in Irish culture.

**Accommodation :** Accommodation will be provided on campus for the duration of the conference. Campus accommodation is generally of a very high standard and offers excellent value, therefore we would recommend this to conference delegates. There are also several hotels and B&B's located close to the University campus.

**Travel:** The conference is being hosted at the University of Limerick which is just outside the city of Limerick in the mid-west of Ireland. The most convenient airport to fly into is Shannon Airport which is located approximately 35 minutes from the University campus. There will be a hosted desk at Shannon airport from 9 am to 5 pm on the day prior to the conference to meet all delegates as they arrive. This desk will be located just after baggage collection in the main arrivals area.

**Conference Website:** For further information please visit the conference website at: [www.isbs2009.com](http://www.isbs2009.com)

We look forward to welcoming you to Limerick in August 2009

Conference Host  
Dr. Drew Harrison

### In Memory of David Waddell

The ISBS community was saddened to learn that David Waddell (June 29, 1916 – June 8, 2008) died peacefully after a long battle with cancer. David was a gifted athlete, scientist, and coach that made substantial contributions to sport and ISBS.

David earned a B.A. and an M.A. from the University of British Columbia, and also pursued doctoral study at the University of Toronto. He worked for Canada's Department of Agriculture as an entomologist, researcher, administrator, and technical advisor in the Research Branch. David was an ardent

badminton player and, in the course of his lifetime, served in every organizational position at local, regional, provincial, and national levels, an achievement that earned him the loving title of “Mr. Badminton.” David’s passion for sport earned him many accolades and awards including the Bob Maki Memorial Trophy for Ottawa Sportsman of the Year in 1972, the Meritorious Service Award from the International Badminton Federation in 1988, and the Hall of Fame of the Ontario Badminton Association in 2000. He was most proud of his “Badminton Adapted For Children” program.

David truly embodied the applied mission of ISBS. He was passionate about badminton and collaborated with his wife Dr. Barbara Gowitzke on numerous biomechanical studies of the sport. David was an active member and regular contributor to ISBS meetings and the society. He took on the task of writing the ISBS Constitution and By-Laws. In 1997

David was presented the ISBS Life Member Award for his long history of contributions to the society.

Perhaps as important all these achievements in the hearts of many ISBS members will his gift of passion and kindness to all he met. David brought to ISBS a fun-loving and gentle spirit that put everyone at ease. Perhaps this is another ISBS value and tradition that David helped shape. He will be missed by many in Canada, ISBS, and the world.



## ISBS Officers

- President: Youlian Hong, Chinese University of Hong Kong, Hong Kong ([youlianhong@cuhk.edu.hk](mailto:youlianhong@cuhk.edu.hk))
- VP Awards: Richard Smith, University of Sidney, Australia ([R.Smith@fhs.usyd.edu.au](mailto:R.Smith@fhs.usyd.edu.au))
- VP Conferences and Meetings: Mario Lamontagne, University of Ottawa, Canada ([mlamon@uottawa.ca](mailto:mlamon@uottawa.ca))
- VP Publications: Duane Knudson, California State University, Chico, USA ([dknudson@csuchico.edu](mailto:dknudson@csuchico.edu))
- VP Public Relations, Angus Burnett, Edith Cowan University, Australia ([a.burnett@ecu.edu.au](mailto:a.burnett@ecu.edu.au))
- VP Projects and Research: Ross Sanders, University of Edinburgh, United Kingdom ([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))
- President Elect and 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:

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

## Editor's Note

Thank you to the ISBS officers that shared information with me for the newsletter. I heard from several people how the conference in Seoul was outstanding. I encourage you all to make plans for the next year's conference in Limerick. I especially invite you to share with me 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@csuchico.edu](mailto:dknudson@csuchico.edu)



KIHU – Research Institute for Olympic Sports is a nationally and internationally respected, customer-oriented interdisciplinary research, development and service organization for elite sports. KIHU is also a preferred partner in joint projects with various interest groups, functioning to create opportunities for successful elite sports in Finland.

We are looking for a sport-oriented and team-work adaptive

### **Researcher in Sport Biomechanics**

Job description includes, among other things, applying research findings and methods for sports coaching, planning and carrying out of research, development and service projects and communication.

Qualification requirements include a Ph.D., good knowledge of elite sports and experience in research and development work.

Researcher will be appointed for a five-year period or for now. Payment will be based on the government payment class A23 or individual agreement.

Applications should include a short description of scientific work and activity in the area of elite sports, certified CV, list of publications and desired starting date and length of employment.

All applications should be addressed to the Board of the Foundation for Research and Development in Olympic Sports and sent to: KIHU – Research Institute for Olympic Sports, Rautpohjankatu 6, 40700 Jyväskylä, Finland. The period for application is prolonged until a valid applicant has been found.

For further information please contact director Jukka Viitasalo ([jukka.viitasalo@kihu.fi](mailto:jukka.viitasalo@kihu.fi) or phone +358 400 641 597).