

ISBS Newsletter

July 2006
(Vol. 22, No. 2)



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President's Message: Hermann Schwameder



Dear ISBS members,

Due to the preparation of the XXIV ISBS Symposium in Salzburg the focus on ISBS Presidency was substantially restricted in the past few weeks. Consequently, the activities can be reported very briefly.

In April and May the new constitution and the new ISBS logo were ready for voting. The results are available, due to formal aspects regarding the constitution in the current version the voting has to be approved at the AGM in Salzburg.

Furthermore, the voting on the new board directors and executive officers has been executed. The results are presented in this issue of the newsletter. Congratulations to all new (and old) ISBS officers, welcome aboard! I am looking forward to the upcoming term and hope for constructive cooperation among all board members. Thanks to all those ISBS members who

were using their democratic rights of voting on this important issue.

In a few days the XXIV Symposium on Biomechanics in Sports will be opened in Salzburg. There will be exchange of new ideas, discussion on concepts and results lots of opportunities for conversation and meetings at very attractive social and cultural events. I hope that this symposium helps to win new ISBS members and to establish ISBS within the scientific community.

Right after the conference in Salzburg the executive and board members will continue on working on the tasks that were defined during and after the Beijing conference in 2005: New membership, ISBS sponsorship, New Investigators Award and the new structure of the board.

Thanks for your ideas, communication and efforts.

Hans Gros

In remembrance of Dr. Hans Gros



Hans Gros

The former ISBS president, founding member and ISBS board member Dr. Hans Gros passed away April 27, 2006 at the age of 51. Hans was born on 2 December 1954 in Eltville, Germany. After his school years he studied sport science and received his diploma from the University of Mainz, Germany in 1976. His further studies took him to Edmonton, Canada where he earned a Master degree (MSc) in 1978 and a PhD in 1982 under the supervision of Dr. Juris Terauds. In 1981 he became a faculty member at the University of Stuttgart in Germany. He taught biomechanics, skiing, and track and field. His research interests focused on sports equipment design for gymnastics, archery, and the biomechanics of

track and field.

The International Society of Biomechanics in Sports loses Hans - one of its most supporting members. In the mid-eighties he edited the ISBS newsletters and again in the first years of the new century. He served at the board of directors and held various executive positions. He took over the presidency in 1998/99 at a time when membership declined and structural problems weakened ISBS. Thanks to his effort ISBS entered the new millennium stronger than ever before. Again an important step was Hans establishing the ISBS website. He served as the chair of the quality control committee of CIS. For all his work Hans was honored as a Life Member of ISBS in 2001 at the symposium in San Francisco.

These are the facts but this is just half the story. It is not just what he achieved: it is how he achieved

it. ISBS as a professionally working scientific society has the goals to exchange the ideas of sports biomechanics, to gather and disseminate information and especially “to bridge the gap between researchers and practitioners“. Hans presented these ideas par excellence in two ways, professionally and in a gentle humanitarian way that let participants feel very welcomed. All those who had the privilege to meet Hans at the various ISBS conferences have their own positive story to tell. No wonder the message of his ending was a shock. Everyone knowing Hans has his or her own memories. No one has the full picture but everybody saw Hans as a warmhearted person pursuing and working ISBS’ goal. Hans took on tasks when he saw they had to be done and he was able to hand over when he found people capable and willing to undertake the responsibility. He was able to lead and he was a team player too. Students and young ISBS members, particularly, had a supporter in Hans. For example Karin, now one of the board members and lecturing at «Institution» found in Hans here first biomechanics teacher.

Hans leaves behind his wife Petra and two children Daniela and Thomas and lots of friends on all five continents. My personal feeling is “with Hans a part of ISBS has left“. I am wondering if he is still around somewhere. Of course I do not know. But, I am sure if the three great monotheistic religions are right, he received a particularly comfortable place, wherever this might be. If the great eastern religions are right, he will have a bright and prosperous new life coming up. If none of those ideas are true, then at least he made this world a little brighter and he will live on in the memories and hearts of all those knowing him.

Farewell Hans!

Manfred Vieten



Pierre Gervais: This was taken when we were graduate students at the University of Alberta, Canada (1981). In the back row left to right - Iraklis (Herc) Kollias, Jon Kuntz, Juris Terauds, Bill, Hans Gros, Gord Marchirori; Middle - Pierre Gervais; Front - Tony Bauer, Craig Wronko. You could say Hans had a knack at supporting his friends.







Manfred Vieten: These five pictures above were taken during the 1998 conference that I organized. Hans was the president at that time. The photographer is Bettina Hamann.






ISBS Election 2006




Officers

	<p>President Elect: Youlian Hong The Chinese University of Hong Kong, PR China</p>
	<p>VP of Publications: Young-Hoo Kwon Texas Woman's University, USA</p>

	<p>VP of Public Relations: Angus Burnett Curtin University of Technology, Australia</p>
	<p>VP of Research and Projects: Ross Sanders University of Edinburgh, UK</p>

Directors

	Rafael Bahamonde Indiana University-Indianapolis, USA
	Giannis Giakas University of Thessaly, Greece
	Chenfu Huang National Taiwan Normal University, Taiwan
	Laurie Malone Lakeshore Foundation, USA
	Bridget Monroe University of Wollongong, Australia

	John Osarello California State-East Bay, USA
	Karen Roemer Chemnitz University of Technology, Germany
	Uwe Kersting University of Auckland, New Zealand
	Mark Walsh Miami University-Ohio, USA
	Jing Xian Li University of Ottawa, Canada
	Randall Jensen Northern Michigan University, USA

Congratulations!

Officers' Reports

VP of Public Relations: Angus Burnett



The emphasis for Public Relations for the ISBS in 2005/2006 has been in two areas; sponsorship and building links with Asian Sports Biomechanists.

2005/2006 has been an important year with regard to sponsorship for the ISBS. The society has implemented a tiered sponsorship scheme to support initiatives of the ISBS. This system

consists of Gold, Silver and Bronze level sponsors and there are distinct levels of support provided by the ISBS for each of these levels. The money generated from this initiative will be distributed amongst various initiatives related to the annual ISBS conference.

Currently, we have three sponsors:

- Novel GmbH: Gold Sponsor
- Visol: Gold Sponsor
- Contemplas: Silver Sponsor

The NIA award at the 2006 ISBS conference in Salzburg will be structured as follows from these monies:

NIA	Oral	Poster
1st Prize	1000 Euros	600 Euros
2nd Prize	500 Euros	400 Euros
3rd Prize	300 Euros	200 Euros

The other issue that has been addressed this year is building links with Asian Biomechanists. This has been done by using the newsletter to create and increased awareness of ISBS members of various events and services the Japanese, Korean, Taiwanese and Chinese Societies provide. This I believe should be a long term goal of the society to ensure its growth.

Treasurer: Manfred Vieten

Revenues (July 2005 - June 2006)

Revenue	Actual €
Membership Fee	15990.19
Sponsoring	0.00
Extras	0.00
Total Revenue	15990.19

The income through membership fee is extraordinary high for the last budget year. The reason is that some of our members paid the fee for a couple of years. As a consequence we should expect next year's income from membership fee to be as low as €10,000.

Expenses (July 2005 - June 2006)

Expenses	Actual [€]
President	0
President Elect	0
VP for Awards	700.00
VP Conferences	0
VP Publications	6294.54
VP Public Relations	0
VP Research and Projects	0
Secretary-General	0
Editor of "Sport Biomechanics"	1751.00
Treasurer	170.90
Extras	300.00

Total Expenses 9216.44

During the post conference meeting in Beijing no budget was discussed or decided on. Consequently no budget and variance statements are provided.

Membership by Continent

Continent	Count	Proportion
America	82	31.4%
Europe	86	33.0%
Others	93	35.6%
Total	261	

Membership by Country

Country	Count
Australia	24
Austria	6
Brazil	1
Canada	12
China	8
Finland	1
France	3
Germany	13
Greece	3
Iran	1
Ireland	7
Italy	11
Japan	28
Jordan	1
Korea	10
Lithuania	2
Malaysia	2
Mexico	1
Netherlands	2
New Zealand	10
NIGERIA	1
Norway	1
Poland	2
Portugal	5
Russia	1
Singapore	2
Spain	2
Sweden	2
Taiwan	6
UK	25
USA	68
Total	261

Upcoming ISBS Symposia

ISBS 2006



**XXIV Symposium on Biomechanics in Sports
July, 14-18, 2006
Salzburg, Austria**

University of Salzburg
Department Sport Science & Kinesiology
Rifer Schlossallee 49, 5400 Hallein, Austria

Congress President: Hermann Schwameder

Registrations & Presentations:

- 320 registrations from 39 countries
- 133 oral presentations (29 sessions)
- 100 poster presentations (3 sessions)

New Investigator Award:

- 49 applications
- Finalists: 24 oral presentations, 11 poster presentations

Topics:

- Biomechanics in elite sport
- Biomechanics of training and performance diagnostics
- Biomechanics in leisure sport
- Biomechanics in sport physiotherapy and rehabilitation
- Biomechanics in physical education
- Biomechanics in children and elderly
- Methodology of sport biomechanics
- Modelling and computer simulation

Program:

Keynote Lectures

- Benno Nigg: Sports Biomechanics - Injury Prevention and Performance Enhancement
- Joe Hamill: Overuse Injuries in Running: Do Complex Analyses Help Our Understanding?
- Darren Stefanyshyn: Sports Equipment – Energy and Performance
- Jan Cabri: Biomechanical Issues in Sports

Physiotherapy and Rehabilitation

- Alberto Minetti: The Evolution across Ages of Efficiency and Economy of Human Locomotion and Exercise'
- Felix Eckstein: Short- and long-term Effect of Exercise on Human Cartilage
- Vasilios Baltzopoulos: Modelling Dynamic Musculoskeletal Function and Implications for Computer Simulation and Inverse Dynamics Applications in Sport
- Bruce Elliott: Field of Laboratory Testing: A Conundrum

Applied Program and Invited Symposia:

Biomechanics of alpine skiing: Erich Müller

- Miriam Klous (Austria): The accuracy of 3D kinetic and kinematic data used for joint loading analysis in skiing and snowboarding
- Peter Federolf (Austria): Does a skier's position on the ski affect the results of gliding tests used to assess ski-snow friction?
- Peter Spitzenfeil (Germany): Mechanical load and muscular expenditure in alpine ski-racing
- Josef Kröll (Austria): Technique training in alpine ski racing: Forced movement changes by a specific device
- Peter Scheiber (Austria): Characteristics of the force application point - a method to identify learning processes in alpine skiing?
- Christian Raschner (Austria): Longitudinal fitness testing – supervision of training in young alpine ski racers

Biomechanics of nordic skiing: Stefan Lindinger

- Hans-Christer Holmberg (Sweden): Integrative physiological and biomechanical aspects in competitive cross-country skiing
- Thomas Stöggl (Austria): Double-push skating and klap-skate in cross country skiing, technical developments for the future?
- Gerald Smith (Norway): Ski skating technique choice: mechanical and physiological factors affecting performance
- Valleala Riku (Finland): Biomechanical and physiological aspects of rifle shooting in

simulated biathlon competition

Biomechanics in tennis: Bruce Elliott

- Jacqueline Alderson (Australia): Visual assessment tools in tennis
- Duane Knudson (USA): Applying biomechanics to the qualitative analysis of the forehand
- Joachim Mester (Germany): Loading in tennis stroke production
- Stuart Miller (UK): Governing body priorities in tennis science research

Biomechanics in running and running shoes: Peter Brüggemann

- Benno Nigg (Canada): New ideas and concepts in sport shoe development
- Darren Stefanyshyn (Canada): Sport equipment - energy and performance
- Wolfgang Potthast (Germany): Gender and age-related running biomechanics
- Gert-Peter Brüggemann (Germany)

Biomechanical issues of strength training and conditioning: Dietmar Schmidtbleicher

- Dietmar Schmidtbleicher (Germany): Comparison of different strength training methods for the development of power
- Christian Haas (Germany): Neural and biochemical aspects in rehabilitation training
- Carson Patterson (Austria): Power testing in elite sport and practical applications for training
- Christian Schiefermüller (Austria): The power threshold concept in ski specific strength training

Venue:

University of Salzburg, Faculty of Natural Science, Hellbrunner Allee 34, 5020 Salzburg

Social Program:

Opening ceremony with welcome reception
Special Mozart concert
Visit of a salt mine
Austrian evening
Closing banquet

Email:

isbs2006@sbg.ac.at

Website:

www.isbs2006.at

Major Sponsor:

VICONPEAK

ISBS 2007



**XXV Symposium on Biomechanics in Sports
Aug, 23-27, 2007
Ouro Preto, Brazil**

Federal University of Minas Gerais (UFMG)
Belo Horizonte, Brazil

In 2007, from 23rd to 27th of August, the International Society of Biomechanics (ISBS) will hold its 25th annual conference in Ouro Preto – Brazil. It will be the first time that this conference, which has been hosted by various countries in different regions of the world, comes to Latin America, where Sports Biomechanics has been growing over the last three decades. In order to establish adequate conditions and scientific support for the development of high performance sports, the Brazilian Government created in 1997 a network of “Centers of Sports Excellence” situated at Federal Universities and equipped with laboratories for Sport Biomechanics. One of the most important Centers of Sports Excellence is at the Federal University of the State of Minas Gerais in Belo Horizonte (UFMG), which has the honor to organize the XXIV Conference of the ISBS in 2007.

Belo Horizonte is the third largest city of Brazil with about 3 million inhabitants, located about 500 km north of São Paulo. Since Belo Horizonte is connected with Rio de Janeiro and São Paulo by innumerable daily flights of about 50 min, the city can easily be reached from all over the world and

is an excellent starting-point for excursions to historic and nature highlights in Brazil.

One of the most important historic sites of Brazil is the picturesque little town Ouro Preto, situated about 90 km from Belo Horizonte in a mountainous landscape and surrounded by impressive tropical nature with a lot of waterfalls and rainforest. The landscape offers many opportunities for excursions and the city's history is associated with the discovery of Brazil, Brazil's goldrush and independence. In 1698 gold was discovered in the area and Ouro Preto was founded in 1711. At that time the mines were the largest deposits of gold in the western hemisphere. The gold bought the services of baroque artisans, who turned the city into an architectural gem. At the height of the gold boom in the mid 18th century there were 110,000 people, mainly slaves, in Ouro Preto, versus 50,000 in New York and about 20,000 in Rio de Janeiro. As the boom tapered off, it was increasingly difficult to pay the ever-larger gold taxes charged by the Portuguese court. In 1789 Joaquim José da Silva Xavier, who's nickname was "Tiradentes" (tooth-puller) and others influenced by the philosophies of the French Revolution, started the first movement for Brazil's independence. As the rebellion was crushed in its early stages by agents of the Portuguese court, Tiradentes was jailed for three years, then drawn and quartered. Until 1897 Ouro Preto was the capital of the state of Minas Gerais (General Mines). In 1981 UNESCO proclaimed Ouro Preto a World Cultural Heritage Site.



The modern Congress Center of Ouro Preto which is a converted former steel works offers excellent conditions for the ISBS conference and all hotels, cultural and historical highlights can be reached by a 10 min walk.



Since the ISBS conference is the most important

opportunity to join the international community of Sport Biomechanics for scientific exchange and personal contacts in an attractive atmosphere the main objectives of the conference are:

- A high level scientific program
- Applied programs to transfer scientific findings to athletes and coaches
- Social and cultural events to cultivate friendships and to perceive Brazilian hospitality

Seven outstanding Biomechanists have already confirmed their participation in the Applied Program or as Keynote Speaker. The topics of the Applied Program take into consideration the special interests of Latin America and will be:

- Biomechanics of Swimming
- Biomechanics of Soccer
- Biomechanics of Gymnastics
- Biomechanics of Athletics

The reasons why the Department of Physical Education, Physiotherapy and Occupation Therapy of the Federal University of Minas Gerais applied to host the 25th ISBS Symposium in Ouro Preto are:

- Biomechanics and especially Sport Biomechanics is well developed in Brazil.
- The Brazilian Society of Biomechanics is the

only scientific society dedicated to Biomechanics in Latin America and the majority of its members are dedicated to Sport Biomechanics.

- The ISBS conference has never been held in Latin America.
- The Congress Center of Ouro Preto offers adequate conditions for the ISBS conference.
- Ouro Preto as World Cultural Heritage Site is an attractive venue that combines cultural, historical and scenic highlights.
- Ouro Preto is situated in the neighborhood of Belo Horizonte which has an international airport with direct connections to all continents via Rio de Janeiro or São Paulo.

We are convinced that Ouro Preto as World Cultural Heritage Site is an attractive venue that combines cultural, historical and scenic highlights with an excellent geographic situation as starting point for further excursions in Brazil, as e.g. Rio de Janeiro, the waterfalls of Foz do Iguaçu, the afro-brazilian culture of Salvador or the magnificent beaches of the north-east.

We are looking forward to welcoming you to Ouro Preto.

Dr. Hans-Joachim Menzel
President of the XXV International Symposium on Biomechanics in Sports

Upcoming Conferences



By Gary Christopher

♣ XXIVth International Symposium of Biomechanics in Sports

Jul 14-18, 2006; Salzburg, Austria

University of Salzburg

<http://www.isbs2006.at/papers/main.htm>

♣ 5th World Congress of Biomechanics

Jul 29-Aug 4, 2006; Munich, Germany
Technical University of Munich and Munich
University of Applied Sciences

<http://www.wcb2006.org/>

♣ Canadian Society of Biomechanics Meeting

Aug 16-19, 2006; Waterloo, Canada
University of Waterloo

<http://www.csb2006.uwaterloo.ca/>

♣ 2006 World Congress on Medical Physics and Biomedical Engineering

Aug 27-Sept 1, 2006; Seoul, Korea

<http://www.wc2006-seoul.org/>

♣ The Fourth IASTED International Conference on Biomechanics

Aug 28-30, 2006; Palma de Mallorca, Spain

<http://www.iasted.org/conferences/2006/spain/bio>

[mech.htm](#)

♣ **3rd International Ankle Symposium**

Sept 1-3, 2006; Dublin, Ireland

Email anklesymposium3@ucd.ie

♣ **American Society of Biomechanics Annual Meeting**

Sep 6-9, 2006; Blacksburg, Virginia, USA
Virginia Tech - Wake Forest School of Biomedical Engineering and Sciences

<http://asb2006.org/>

♣ **1st Joint ESMAC-GCMAS Meeting (JEGM06)**

Sep 28-30, 2006; Amsterdam, The Netherlands
The European Society of Movement Analysis for Adults and Children (ESMAC) & The Gait and Clinical Movement Analysis Society (GCMAS)

<http://www.jegm06.org/>

♣ **The 16th Annual Meeting of the International Association for Dance Medicine and Science (IADMS)**

Oct 19-21, 2006; West Palm Beach, Florida, USA

<http://www.iadms.org/>

♣ **The Fifth IASTED International Conference**

on Biomedical Engineering

Feb 14-16, 2007; Innsbruck, Austria

<http://www.iasted.org/conferences/home-555.html>

♣ **54th Annual Meeting of American College of Sports Medicine (ACSM)**

May 30 - June 2, 2007; New Orleans, USA

<http://www.acsm.org/Content/NavigationMenu/Education/Conferences/Conferences.htm>

♣ **6th International Symposium Computer Science in Sport**

Jun 3-6, 2007; Calgary, Canada

University of Calgary and the International Association on Computer Science in Sport (IACSS)

<http://www.kin.ucalgary.ca/iacss2007>

♣ **2007 National Athletic Trainers' Association (NATA) Annual Meeting & Clinical Symposia**

June 26-30, 2007; Anaheim, California, USA

<http://www.nata.org/annualmeeting/>

♣ **XXVth ISBS Symposium**

Sep 3-7, 2007; Ouro Preto, Brazil

Federal University of Minas Gerais, Brazil

<http://www.twu.edu/biom/isbs/symposia.htm>

ISBS Officer List (2006-2007)

- President: Hermann Schwameder, University of Salzburg, Austria
(hermann.schwameder@sbg.ac.at)
- President Elect: Youlian Hong, Chinese University of Hong Kong, Hong Kong
(youlianhong@cuhk.edu.hk)
- VP Awards: Richard Smith, University of Sidney, Australia (R.Smith@fhs.usyd.edu.au)
- VP Conferences and Meetings: Youlian Hong, Chinese University of Hong Kong, Hong Kong (youlianhong@cuhk.edu.hk)
- VP Publications: Young-Hoo Kwon, Texas Woman's University, USA
(ykwon@mail.twu.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: Drew Harrison, University of Limerick, Ireland
(drew.harrison@ul.ie)
- Treasurer: Manfred Vieten, University of Konstanz, Germany (manfred.vieten@uni-konstanz.de)

ISBS Directors

2005-2007:

- Duane Knudson, California State University, Chico, USA
- Pam Russell, Bridgewater State College, USA
- Mario Lamontagne, University of Ottawa, Canada
- Wayne Marino, University of Windsor, Canada
- Drew Harrison, University of Limerick, Ireland
- Uwe Kersting, University of Auckland, New Zealand
- Young-Tae Lim, Konkuk University, Korea
- Spiros Prassas, California State University-Hayward, USA
- Bill Sands, US Olympic Committee-Sport Science, USA
- Richard Smith, University of Sidney, Australia

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
- John Ostralle, California State-East Bay, USA
- Karen Roemer, Chemnitz University of Technology, Germany
- Mark Walsh, Miami University-Ohio, USA

Editor's Corner: Young-Hoo Kwon

This is the second NL issue for year 2006. I'd like to thank those who have contributed to this issue, especially Pierre Gervais and Manfred Vieten for the photos. I hope the Salzburg Symposium to be a great success and those of you who are going to participate to have a wonderful time in Salzburg!

NL Volume 22 No. 3:

The October-2006 issue will be dedicated to the aftermath of the Salzburg Annual Symposium and officers' reports.

The deadline for the Oct-2006 Issue is Sept 30, 2006. Please send the NL materials to:
ykwon@mail.twu.edu

Any suggestions regarding the Newsletter are welcome, too. Those who would like to serve on the Newsletter Editorial Team please let me know.

Editorial Team:



Gary Christopher
 Texas Woman's University
garyalan59@mstar.net

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