October 2013

# **ISBS Newsletter**

October 2013 (Vol. 29, No. 2)



#### **Table of Contents:**

Message from the President [Joseph Hamill]	2
ISBS 2013 Post Conference Report [Peter Chenfu Huang / Chienlu Tsai]	3
Report of Student Mentoring Program 2013 [Gerda Strutzenberger]	4
ISBS Awards 2013 [Gareth Irwin]	5
ISBS Student Mini Research Grant 2013 [Jing Xian Li]	7
Preview of ISBS 2014, Johnson City [Kimitake Sato]	
Call for ISBS Awards 2014 [Elizabeth Bradshaw]	8
Biomechanics and Medicine in Swimming Conference, Australian Institute of Sport [Bruce Mason]	. 11
ISBS 2013 Proceedings available at Proceedings Archive [Manfred Vieten]	.12
ISBS Sponsors [Wolfgang Potthast]	.13
ISBS Officers	.13
ISBS Directors	.13

# Message from the President



As the incoming President of the International Society of Biomechanics in Sports, this is my first contact with many of our membership. I have been very fortunate to have served ISBS in many capacities over the years and to know many of the members. Over the years, I have been impressed with the dedication and commitment to ISBS of many members and I hope that your enthusiasm for ISBS will continue.

We have a new dynamic Executive Council that works very hard on ISBS matters. I would like to mention, in particular, the efforts of Young Hoo Kwon as Editor of our journal Sports Biomechanics. He is in his last year as editor and we should congratulate him on a job well done. He has certainly taken the journal to new heights. Others on the Executive Board are either leaving the Board or are changing portfolios. For those leaving the Board, thank you for your service to ISBS.

One particular aspect of ISBS that is very important to our members is the number of grants that are available from ISBS. Every professional and student member should look at the ISBS web site and investigate the awards available. These awards are very generous and enable many members to either attend the ISBS conference or to conduct research in other laboratories.



Joe Hamill participating in ISBS 2013, Taipei

Finally, I urge members to attend our next 32<sup>st</sup> annual meeting in Johnson City, Tennessee, USA. The scientific and applied programs look very exciting. I am sure that Kimi Sato, the Chair of the Organizing Committee will also have a full social program for us.

In ending, I wish to thank you for having faith in me to elect me as your new President. If you have any concerns, suggestions etc. about ISBS please contact me. I hope to see you in Tennessee.



Joseph Hamill, PhD ISBS President Professor, Department of Kinesiology, University of Massachusetts Amherst

# **ISBS 2013 Post Conference Report**



The 31<sup>st</sup> Conference of the International Society of Biomechanics in Sport (ISBS 2013) occurred in Taipei, Taiwan from the 7<sup>th</sup> to 11<sup>th</sup> of July at the National Taiwan Normal University. Over 300 delegates attended the conference, which included 61 new members. The conference was officially opened by the Vice President of the National Taiwan Normal University, Chih-fu Cheng, with delegates treated to a performance by the Electric-Techno Neon Gods and Traditional Chinese Pipa (a plucked string instrument).



Overall 237 papers were presented at the conference, which included 7 keynote papers, 100 oral papers, 111 poster papers, 15 invited papers from five applied sessions, and one paper from invited session. The conference programme therefore successfully offered up to date research on sports biomechanics and their applications of researchers from 35 countries around the world. And we have two great Student Mentoring Program which have total 46 students and mentors to join.

Applied instrumentation & evaluation	
methods in sports biomechanics	34
EMG applied to sports biomechanics	8
Sports medicine	10
Strength & conditioning	16
Biomechanics of martial arts	7
Gymnastics	12
Racquet sports	5
Swimming biomechanics	11
Track and field biomechanics	16
Team sports	10
Winter sports	3
Other topics	17
Biomechanical modelling and simulation	8
Training methodologies and equipment	5
Footwear biomechanics	10
Biomechanics of gait and running	25
Coaching biomechanics	9
Teaching biomechanics	2
Muscle mechanics	5



The ISBS 2013 provide the greatest funds for the Student Travel Grants of all time. The total grant was 9000 Euros, that the 3000 Euros was from the Taipei local sponsors for six students and the 6000

#### Vol. 29, No. 2



Euros was from ISBS headquarter for twelve students elected by the VP conference of ISBS. Those totally benefit the 18 students from all over the world. Throughout the conference delegates enjoyed a range of social activities including a welcome reception, half-day tours, and culminating with the closing banquet which included a Chinese Whipping Top and Rope Skipping performance and a Live Band show. The closing banquet was held at the Fullon Hotel Danshuei Fishermen's Wharf which is located near the end of Danshuei River and Taiwan Strait. The participants had enjoyed the seaside scenery.

The ISBS2013 organizers thank the conference sponsors and all delegates and exhibitors who via their participation contributed to the success of the conference. We look forward meeting again in ISBS 2014, Johnson City, TN, US.



Dr Peter Chenfu Huang Conference Host, ISBS 2013 ISBS Board of Directors (2012-2014)



Dr Chienlu Tsai Conference Co-Host, ISBS 2013 ISBS Board of Directors (2012-2014)

# **Report of Student Mentoring Program 2013**



The Student Mentor Program was successfully held for the  $2^{nd}$  time at this year's ISBS conference in Taipei. 24 students took the opportunity to meet with a mentor for an hour each at the beginning and end of the conference. Discussions were held in pairs by one to two students with one mentor out of the sportbiomechanics field. But let's best have a voice from the students: "I signed up to the ISBS student mentoring program as I felt this would be a great opportunity to meet an experienced researcher who I may not have had the courage to

October 2013

Vol. 29, No. 2



talk to otherwise. Before I arrived I was a little apprehensive about talking to someone so experienced and I was unsure about how much I would really benefit from this. However this program turned out to be one of the highlights of the conference for me. My mentor was friendly, passionate and easy to talk to and the sessions evolved into discussions about my career direction, research versus teaching issues and general advice on pursuing a career in this field. It was also enlightening to hear of someone else's experiences and how careers are progressed in different countries. The sessions were very well organised and I would recommend this program to all students and early career researchers (Dr. Jenny White)"

Like last year, I look back on two constructive and profitable sessions and thank all the students for talking this opportunity, as well as all the mentors for providing their time and designation to the participating students. All this would not be possible without the excellent organisation of the Conference Committee, which made it possible for all participants to exchange their thoughts within a friendly and comfortable atmosphere.



Dr Gerda Strutzenberger ISBS Director (2013-2015) Coordinator of Student Mentoring Program 2013

# **ISBS Awards 2013**

I would like to start by thanking the ISBS Awards Committee and all their help and support this year. This is my final report, as my second term as VP Awards ended after the excellent conference held in Taipei, 2013. It has been a privilege to be able to manage the awards process and recognize the next generation of excellent researchers. The help and support I have had from the ISBS committee and directorate has been fantastic and I would like to publically thank everyone. I now hand over to Dr Elizabeth Bradshaw, ACU, whom I am sure will do a superb job.

#### **ISBS Awards Committee**

Professor Ross Sanders, Australia Professor Hermann Schwameder, Austria Professor Joseph Hamill, USA Professor Jacqueline Alderson, Australia Professor Bruce Elliott, Australia Professor Wolfgang Potthast, Germany Professor Tzyy-Yuang Shiang, Taiwan Professor Daniel Fong, China Professor Jing Xian Li, Canada Professor Youlian Hong, China Professor Randall Jensen, USA

#### **Fellow of ISBS**

Professor Bruce Mason, Australian Institute of Sport

Professor Young-Tae Lim, Konkuk University, Korea

Professor Jacqueline Alderson, University of Western Australia



From left: Bruce Mason, Young-Tae Lim, Jacqueline Alderson

#### Vol. 29, No. 2

#### October 2013

#### Hans Gros Emerging Researcher Award

Dr Daniel Fong, The Chinese University of Hong Kong, Hong Kong, China.



From left: Gareth Irwin, Daniel Fong

### **New Investigators Award: Posters**

- 1<sup>st</sup>: Takahito Iga, Nagoya University, Japan
- 2<sup>nd</sup>: Hikari Naito, University of Tsukuba, Japan
- 3<sup>rd</sup>: Yutaka Shimizu, University of Tsukuba, Japan



From left: Takahito Iga, Hikari Naito, Yutaka Shimize

### **New Investigators Award: ORAL**

Co-1<sup>st</sup>: Steffen Willwacher, German Sport University Cologne, Germany

Co-1<sup>st</sup>: Roman Farana, University of Ostrava, Czech Republic

Co-2<sup>nd</sup>: Toshiyuki Fujihara, Osaka University, Japan

Co-2<sup>nd</sup>: Stefan Hoerzer, University of Calgary, Canada



From left: Steffen Willwacher, Roman Farana, Toshiyuki Fujihara, Stefan Hoerzer

#### **Geoffrey Dyson Lecturer 2014**

Dr Drew Harrison, University of Limerick, Ireland

#### Life Member

Professor Joseph Hamill, FISBS, University of Massachusetts, USA



From left: Joseph Hamill, Drew Harrison

Best Wishes



Dr Gareth Irwin, FISBS Immediate Past ISBS Vice President (Awards)

# **ISBS Student Mini Research Grant 2013**

We have launched ISBS Student Mini Research Grant (SMRG) through ISBS Newsletter in March this year. Moreover, grant application news was spread through an email by VP for publications. It was sent to all members following the launch of ISBS Newsletter, in which the main contents of the ISBS Newsletter were announced.

We have received three applications. As one application can't meet the deadline of the application and wasn't accepted. An evaluation committee of ISBS SMRG consisting six ISBS members with good standing was formed to review the other two. The application review was processed by the evaluation committee members. Based on the review results, the committee decided to award SMRG to Mr. Ding, Zheng Ye, from Shang Dong Institute of Physical Education and Sports, China.

SMRG has been established for two years and

three students have been awarded. For the reference of the future applicants, several problems that often occurred in the application of the past years should be addressed. 1) As the grant supports a one year research project and provides limited money, the proposed study should be within this scope. Some of received proposals seem to be a PhD project, which is impossible to be completed within one year; 2) The application instruction was not followed in terms of proposed budget; and 3) The application deadline was not met.

Wish the students who attend to apply for the grant prepare early and success.



Dr Jing Xian Li ISBS Vice President (Projects and Research)

# Preview of ISBS 2014, Johnson City



On behalf of the Department of Exercise & Sport Science and the Center of Excellence for Sport Science & Coach Education (CESSCE) at East Tennessee State University, we would like to invite you to the beautiful region of East Tennessee during the July 12-16, 2014.

We are happy to have past president of ISBS, Professor Drew Harrison as our Geoffrey Dyson keynote speaker to open our conference. We have an exciting lineup of keynote speakers and unique applied session topics. Please visit our official website for updates at: <u>http://www.etsu.edu/academicaffairs/scs/isbs2014/</u> <u>default.aspx.</u> Conference paper submission will be open from December 1<sup>st</sup> to February 7<sup>th</sup>.

Themes for the scientific program include:

- Locomotion
- Jumping/landing
- Product testing/sensor technology
- Modeling/simulation
- Strength & conditioning/training methods
- Injury prevention/rehabilitation

CESSCE is recognized as an Olympic Training

Site. Biomechanical research for Olympic sports will be included in the scientific program. Here are some examples:

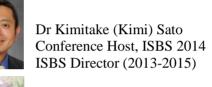
- Combat sports
- Acrobatic sports
- Water sports
- Strength-power sports
- Endurance sports
- Winter sports
- Paralympic sports

Social events include the opening ceremony, regional tours, and the closing ceremony. Be prepared for a memorable time. Delegates will experience Appalachian and music such as music from bluegrass band.

Our program is the one and only University program that collaborates with Division I University athletics in the United States. Faculties and graduate students are team sport scientists and strength coaches. Our aim is to educate our students and help our athletic teams to develop their athletes during their collegiate career. We will be offering a "pre-conference" workshop to showcase our athlete monitoring process to anyone who wishes to attend.

Our program is proud to host such a high-profile international conference. We would like you to have memorable experiences both academically and culturally. If you have any questions, please contact us (<u>2014ISBSinfo@gmail.com</u>) and we will do our best to help you have a smooth trip and stay during the conference. We will see you in Johnson City.

Yours Sincerely,



Dr William A. Sands Scientific Committee Chair, ISBS 2014

# Call for ISBS Awards 2014

Dear ISBS members,

Greetings from the Awards Committee! The time has come for you to consider applying for the following awards:

# New Investigator Award,

# Hans Gros Emerging Researcher Award

Please read the criteria for selection below. Applications for the New Investigator Award are due on Friday 7<sup>th</sup> February, 2014 and applications for the Emerging Researcher Award are due on Friday 31<sup>st</sup> January, 2014. Only applications submitted by these dates will be considered by the ISBS Awards Committee for 2014. Check the list of previous recipients at <u>http://www.isbs.org/</u> Included below are the criteria against which each nomination will be made below.

## Han Gros Emerging Researcher Award

The Hans Gros Emerging Researcher Award recognizes excellence in early career research. This prestigious award is given annually to an individual who has excelled in their early career (2-5 years post PhD) and has embodied the ISBS philosophy of applied science and 'bridging the gap' between research and application in practice. The winner will be invited to present his/her research at the ISBS2014 conference in Johnson City, Tennessee.

## Award Criteria

The entrance criteria for the Hans Gros Emerging Research Award are as follows:

### Vol. 29, No. 2

- 1. The applicant must be a full member of ISBS for at least two consecutive years.
- 2. The applicant must be within two to five years of graduating with a PhD. E.g. If the applicant graduated in 2012, then he/she can apply in the years 2014-2017.
- 3. The applicant must have a record of successful research esteem and publications.
- 4. A letter of support from an established researcher in the field of Sports Biomechanics with a clear statement that he/she supports the application for the ISBS Hans Gros Emerging Researcher Award. The letter must accompany the application form.
- 5. A 250-word abstract outlining the proposed presentation topic. The proposed presentation should address a topic suitable for the ISBS audience.

## **Review of Applications**

Applications will be reviewed by the VP of Awards. Applications not adhering to the award criteria will not be judged. Applications adhering to the award criteria will be forwarded to the Scientific Judging Committee (SJC). The applications will be judged based on the submitted application only and will be reviewed using the following criteria:

- scientific merit of the proposed topic,
- suitability of the proposed topic for the ISBS conference,
- proposed topic is within the applicants area of expertise, as evidenced by their research record,
- record of academic publications and contributions at conferences,
- evidence of developing and leading innovative research projects,
- evidence of impact of research,
- evidence of awards and grants to support research, and
- evidence of esteem indicators.

The decision of the SJC is final in all cases and no correspondence will be entered into. The successful applicant will be asked to submit a conference paper adhering to the ISBS conference paper format. Guidelines can be found at <a href="http://www.etsu.edu/academicaffairs/scs/isbs2014/submit\_paper.aspx">http://www.etsu.edu/academicaffairs/scs/isbs2014/submit\_paper.aspx</a>

## Award Prize

The Hans Gros Emerging Researcher Award includes a certificate, monetary award of € 1000 and complimentary registration for the ISBS2014 conference.

## How to Apply

The applicant must submit the application form (from <u>www.isbs.org</u> or <u>elizabeth.bradshaw@acu.edu.au</u>), 250-word abstract, and supporting documentation to the VP of Awards by Friday 31<sup>st</sup> of January 2014.

### New Investigator Award

The purpose of the New Investigator Award (NIA) is to recognize new researchers in Sports Biomechanics and to encourage them to become productive members of ISBS by expanding the base of knowledge of Sports Biomechanics through study and dissemination of information. The NIA was first awarded in Prague, Czechoslovakia as part of the 8th Symposium of ISBS. Since its inception, it has been contested on an annual basis as part of the annual conference.

## Award Criteria

The entrance criteria for the New Investigator Award are as follows:

- 1. The applicant must be a member of ISBS,
- 2. The applicant must provide documentary evidence that they are:
  - a) currently enrolled in an undergraduate (Honours) or postgraduate program, or
  - b) have completed their terminal degree (Master's or Doctoral) within the last two years,

- 3. The applicant must submit a paper for the ISBS2014 conference,
- 4. The applicant must be the lead author of the submitted paper,
- 5. The applicant can only enter for one type of award (oral or poster).

## **Review of Applications**

The NIA papers will be subject to the normal peer-review process for the ISBS2014 conference to determine appropriateness for inclusion in the conference scientific program. The conference chair will forward all NIA papers (final versions i.e. after revision) to the VP of Awards. Applications will be reviewed by the VP of Awards. Applications not adhering to the award criteria will not be judged. Applications adhering to the award criteria will be forwarded to the Scientific Judging Committee (SJC).

The scientific judging committee will review the NIA papers and shortlist the finalists' pre conference for the oral and poster competition categories. The finalists will be restricted to a maximum of 8 presentations in each category.

A sub-committee of six members of the scientific judging committee will be invited to undertake the 'at conference' judging along with the VP of Awards. The 'at conference' judging panel will attend all of the NIA sessions. During this session the 'at conference' judging panel will rank the presentations and decide the award winners.

The decision of the SJC and the SJC sub-committee is final in all cases and no correspondence will be entered into.

## Award Prize

The New Investigator Award includes a certificate, and a monetary award of Oral: 1st € 400; 2nd = € 300; 3rd € 200 Poster: 1st € 300; 2nd = € 200; 3rd € 100

## How to Apply

The applicant must indicate that they would like to be considered for the NIA when they submit their conference paper to ISBS2014 (<u>http://www.etsu.edu/academicaffairs/scs/isbs2014/submit\_paper.aspx</u>). The applicant must also send their supporting documents (evidence of current enrolment or graduation) to the VP of Awards by the closing date for paper submission for ISBS2014 (Friday 7<sup>th</sup> February 2014).

Thank you for your participation,



Dr Elizabeth Bradshaw ISBS Vice President (Awards)

# Biomechanics and Medicine in Swimming (BMS2014) Conference, Australian Institute of Sport



The Biomechanics and Medicine in Swimming Conference is an international scientific conference that only occurs every four years and BMS2014 will be the 12th such conference. The conference has normally been held in European cities with the exception of one in Canada and the other in the USA. BMS2014 will be held in Canberra from the 28th April to the 2nd May 2014. Swimming Australia are also co-hosts of the conference along with the John Curtin School of Medical Research at the Australian National University. The conference programme will Biomechanics feature areas in (including and computational fluid dynamics new technologies), Physiology (including recovery), Strength and Conditioning, Nutrition and Medicine (including physiotherapy). The abstract submission process is now open and will be open until 30th October 2013.

Researchers in the aquatic sports are encouraged to submit their aquatic research findings as a one page abstract. This particular conference will feature for the first time a strong Swim Coaching area on the first full day of the conference with Bill Sweetenham giving the keynote lecture for the coaching stream. Other high profile international coaches will also be giving informative 45minute presentations on their use of Sport Science and Medicine in their coaching programmes. These coaches along with AIS Coach John Fowlie will give practical pool demonstrations in this first full day of the conference demonstrating how they use sport science in their coaching programmes. The organising committee is hoping that the conference will attract many new delegates from Australia, New Zealand, Japan, China, Korea, Taiwan and the USA. For further information: <<u>http://www.bms2014.com.au/</u>>.

There will also be a pre-conference workshop in Sydney prior to the BMS2014 conference, commencing for delegates flying into Sydney on the Friday, 25th April 2014. The pre-conference workshop will enable delegates to visit the home of the Sydney Olympics and the NSW Institute of Sport and witness the Saturday morning training session in the Sydney Olympic Aquatic Centre where such swimmers as James Magnusson train. The workshop will also provide delegates with the opportunity to see parts of the city with accompanying guides on the Saturday evening and the Sunday. Delegates will be transported to Canberra on a scenic trip down the NSW South Coast on Monday, 28th April.



Dr Bruce Mason ISBS Director (2013-2015)

# **ISBS 2013 Proceedings available at Proceedings Archive**

HOME ABOUT LOGIN REGISTER SEARCH CURRENT ARCHIVES ANNOUNC HOMEPAGE ISBS CONFERENCE 2012 CONFERENCE 2013 CONFERENCE 2014	Journal Help	SYSTEM:
Home > Archives > 31 International Conference on Biomechanics in Sports (2013)	USER	
31 International Conference on Biomechanics in Sports (	Password	
Table of Contents		me
Taipei, Taiwan, July 07 – July 11, 2013 Tzyy-Yuang Shiang, Wei-Hua Ho, Peter Chenfu Huang, Chien-Lu Tsai (Editors)	JOURNAL COM	ITENT
Dyson-Lecture		_
HALF A CENTURY IN SPORTS BIOMECHANICS: BRIDGING THE GAP BETWEEN RESEARCHERS AND PRACTITIONERS David Kerwin	ABSTRACT PDF All Starch	
Hans Gros Emerging Research Award Lecture	By Issue     By Author	
INVESTIGATING AND PREVENTING SPORT-RELATED ANKLE SPRAIN INJURY	ABSTRACT PDF By Title	
Daniel Tik-Pu Fong	<u>Other Jour</u>	nals
Keynote-Lectures	FONT SIZE	
THE BIOMECHANICS OF BETTER BRAS: IMPROVING SUPPORT AND COMFORT DURING	ABSTRACT PDF	1
EXERCISE		
Julie R Steele	INFORMATION	1
THE EVOLUTION OF ATHLETIC FOOTWEAR	ABSTRACT PDF  • For Reader	s
Joseph Hamill	For Authors	Contraction of the second s
THE APPLICATION OF BIOMECHANICS IN SPORT EQUIPMENT INNOVATION	ABSTRACT PDF  • For Libraria	ins
Yuang Shiang Tzyy		
PUTTING BIOMECHANICAL INFORMATION INTO PRACTICAL USE	ABSTRACT PDF	
Michiyoshi Ae OPTIMAL TECHNIQUE, VARIABILITY, CONTROL, AND SKILLED PERFORMANCE	ABSTRACT PDF	
M.R. (Fred) Yeadon, Michael Hiley	ABATRACI FOF	
TOUGH BUT NOT ROUGH: WHAT DOES BIOMECHANICS FEED INTO THE RUGBY SCRUM?	ABSTRACT PDF	
Ezio Preatoni, Dario Cazzola, Keith A. Stokes, Michael E. England, Grant Trewartha	<u></u>	
FUNCTIONAL MUSCLE MECHANICS IN SPORTS: WHY WE SHOULD CARE!	ABSTRACT PDF	
Walter Herzog, Anthony Killick		
Methodology		
DETERMINING OPTIMAL TRIAL SIZE USING SEQUENTIAL ANALYSIS	ABSTRACT PDF	
Paul Taylor, Kwee-Yum Lee, Raul Landeo, Damien O'Meara, Emma Millett		
CROSS-COMPARISON OF THE PERFORMANCE OF DISCRETE, PHASE AND FUNCTIONAL	ABSTRACT PDF	
DATA ANALYSIS TO DESCRIBE A DEPENDENT VARIABLE		
Chris Richter, Leonardo Gualano, Noel E O'Connor, Kieran Moran		
COMPARISON OF TWO METHODS FOR CALCULATING 3-DIMENSIONAL BALL SPIN, AND	ABSTRACT PDF	
ITS APPLICATION TO SOCCER KICKING		
Kathleen Shorter1 and Neal Smith2 Shorter, Neal Smith		
SING A SELF-ORGANIZING MAP TO IDENTIFY GROUP-SPECIFIC MOVEMENT PATTERNS DURING RUNNING	ABSTRACT PDF	

The proceedings of the 31st conference on Biomechanics in Sports held in Taiwan from July 7 to 11 this year are online (<u>https://ojs.ub.uni-konstanz.de/cpa/</u>).

To the authors: Should you have question about the published content or detect a mistake, please

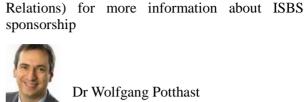
let us know. Send your remarks to <u>isbs98@uni-konstanz.de</u>.



Dr Manfred Vieten ISBS Treasurer

# **ISBS Sponsors**

The society would like to thank the corporate sponsors of ISBS: Sensix, Contemplas, RSscan, and Simi. These sponsors provide important support to the mission of ISBS thorough their quality products and financial support to the society. Remember to consider these fine vendors of sports biomechanics research equipment and software when updating your lab. Contact Dr.



Wolfgang

Potthast.

Dr Wolfgang Potthast **ISBS Vice President (Public Relations)** 







Vice President (Public

# **ISBS** Officers

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Vol. 29, No. 2

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[Edited by Dr Daniel Fong, Vice President (Publications)]