Eponymous Lectures
### Wartenweiler Memorial Lecture

<table>
<thead>
<tr>
<th>Year</th>
<th>Lecturer</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1977</td>
<td>Giovanni A. Cavagna</td>
<td>Efficiency and inefficiency of locomotion.</td>
</tr>
<tr>
<td>1979</td>
<td>Marion Weiss</td>
<td>Tasks and needs of rehabilitation engineering</td>
</tr>
<tr>
<td>1983</td>
<td>Uros Stanic</td>
<td>Movement and electrical stimulation.</td>
</tr>
<tr>
<td>1985</td>
<td>Don B. Chaffin</td>
<td>Computerized models for occupational biomechanics</td>
</tr>
<tr>
<td>1987</td>
<td>Savio Woo</td>
<td>Advances in ligament research</td>
</tr>
<tr>
<td>1989</td>
<td>Benno Nigg</td>
<td>Load analysis to reduce the frequency of sports injuries</td>
</tr>
<tr>
<td>1991</td>
<td>James G. Hay</td>
<td>Biomechanics of long jumping</td>
</tr>
<tr>
<td>1993</td>
<td>Carlo A. De Luca</td>
<td>Limitations of EMG in biomechanics research.</td>
</tr>
<tr>
<td>1995</td>
<td>David A. Winter</td>
<td>Biokinetics: The synergies of human movement</td>
</tr>
<tr>
<td>1997</td>
<td>V. Reggie Edgerton</td>
<td>Force transmissions in mammalian skeletal muscle</td>
</tr>
<tr>
<td>1999</td>
<td>Andrew Huxley</td>
<td>Crossbridge action: Present views, prospects &amp; unknowns</td>
</tr>
<tr>
<td>2001</td>
<td>Richard C. Nelson</td>
<td>The history of ISB.</td>
</tr>
<tr>
<td>2003</td>
<td>Steven Vogel</td>
<td>Twist versus bend: Flexibility in the face of flow.</td>
</tr>
<tr>
<td>2005</td>
<td>Bruce Latimer</td>
<td>Biomechanics and evolution</td>
</tr>
<tr>
<td>2007</td>
<td>Kai-Nan An</td>
<td>Application of medical imaging in biomechanics</td>
</tr>
<tr>
<td>2009</td>
<td>Patrick Prendergas</td>
<td>Mechanoregulation in the skeletal tissues</td>
</tr>
<tr>
<td>2011</td>
<td>Jan Pieter Clarys</td>
<td>Balance of old &amp; new technologies in body composition</td>
</tr>
<tr>
<td>2013</td>
<td>Miguel Nicolelis</td>
<td>Brain machine interfaces to restore mobility.</td>
</tr>
<tr>
<td>2015</td>
<td>Aurelio Cappozzo</td>
<td>History of Biomechanics</td>
</tr>
<tr>
<td>2017</td>
<td>Jaap Van Dieen</td>
<td>Trunk stabilization, adaptations to environment, task and pain</td>
</tr>
<tr>
<td>2019</td>
<td>Hugh Herr</td>
<td>On the Design of Bionic Leg Devices: The Science of ...</td>
</tr>
<tr>
<td>2021</td>
<td>Susan S. Margulies</td>
<td>Bridging the species gap: Scaling traumatic brain injury...</td>
</tr>
<tr>
<td>Year</td>
<td>Name</td>
<td>Title</td>
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<tr>
<td>1987</td>
<td>Gerhard Hochmuth</td>
<td>Biomechanical Movement Analysis and the Aspect of Energy Input</td>
</tr>
<tr>
<td>1988</td>
<td>Marlene Adrian</td>
<td>Quasars and Quintessence</td>
</tr>
<tr>
<td>1989</td>
<td>Bruce Elliott</td>
<td>Biomechanics: Its Role in Sports Performance</td>
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<tr>
<td>1990</td>
<td></td>
<td>Prague - No Award</td>
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<tr>
<td>1991</td>
<td>Elizabeth Roberts</td>
<td>Tracking Velocity in Motion</td>
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<tr>
<td>1992</td>
<td>Vladimir Zatsiorysky</td>
<td>Biomechanical Basis of Strength Training</td>
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<tr>
<td>1993</td>
<td>Doris I. Miller</td>
<td>The Challenge of Communicating with Coaches by Computer</td>
</tr>
<tr>
<td>1994</td>
<td>Gert-Peter Bruggemann</td>
<td>Biomechanical Considerations on Jumping in Sports...</td>
</tr>
<tr>
<td>1995</td>
<td>Patrick J. Bishop</td>
<td>Biomechanics of Cervical Quadriplegia. A Review</td>
</tr>
<tr>
<td>1996</td>
<td>David A. Winter</td>
<td>Total Body Kinetics: Our Diagnostic Key to Human Movement</td>
</tr>
<tr>
<td>1997</td>
<td>Pekka Luhtanen</td>
<td>How Biomechanics Research Can Help the Coach</td>
</tr>
<tr>
<td>1998</td>
<td>Herbert Hatze</td>
<td>Biomechanics of Sports - Selected Examples of Successful Appl.</td>
</tr>
<tr>
<td>1999</td>
<td>James Hay</td>
<td>The takeoff in the long jump and other running jumps</td>
</tr>
<tr>
<td>2000</td>
<td>Bruce R. Mason</td>
<td>Providing a service to an elite national sports programme</td>
</tr>
<tr>
<td>2001</td>
<td>Peter Cavanagh</td>
<td>Biomechanics on The International Space Station</td>
</tr>
<tr>
<td>2002</td>
<td>Jesus Dapena</td>
<td>The Evolution of High Jumping Technique: Biomechanical Analysis</td>
</tr>
<tr>
<td>2003</td>
<td></td>
<td>Conference Cancelled</td>
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<tr>
<td>Year</td>
<td>Speaker</td>
<td>Title</td>
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<tr>
<td>2004</td>
<td>Benno Nigg</td>
<td>Impact forces and injury - a new paradigm</td>
</tr>
<tr>
<td>2005</td>
<td>Roger Bartlett</td>
<td>Future Trends in Sports Biomechanics</td>
</tr>
<tr>
<td>2006</td>
<td>Joseph Hamill</td>
<td>Overuse injuries in running: Complex analyses</td>
</tr>
<tr>
<td>2007</td>
<td>Ross Saunders</td>
<td>Rock and roll rhythms in swimming</td>
</tr>
<tr>
<td>2008</td>
<td>Maurice Yeadon</td>
<td>Applications of Modelling to the improvement of sports technique</td>
</tr>
<tr>
<td>2009</td>
<td>Albert Gollhofer</td>
<td>Proprioceptive feedback in balance &amp; reactive movement</td>
</tr>
<tr>
<td>2010</td>
<td>Barry Bates</td>
<td>Strategies for preventing chronic lower extremity injuries</td>
</tr>
<tr>
<td>2011</td>
<td>Youlian Hong</td>
<td>Tai Chi: Movement Characteristics and Prevention of Falls</td>
</tr>
<tr>
<td>2012</td>
<td>Gideon Ariel</td>
<td>Biomechanics from the Big Bang to the Cloud</td>
</tr>
<tr>
<td>2013</td>
<td>David Kerwin</td>
<td>Half a century in sports biomechanics: bridging the gap</td>
</tr>
<tr>
<td>2014</td>
<td>Drew Harrison</td>
<td>Applications of functional data analysis in sport biomechanics</td>
</tr>
<tr>
<td>2015</td>
<td>Richard Smith</td>
<td>Generating and applying knowledge in sports biomechanics</td>
</tr>
<tr>
<td>2016</td>
<td>Patria Hume</td>
<td>Motion Matters</td>
</tr>
<tr>
<td>2017</td>
<td>Walter Herzog</td>
<td>From Medals to Muscles to Molecules and back to Medals</td>
</tr>
<tr>
<td>2018</td>
<td>Hermann Schwameder</td>
<td>Moving on slopes: Issues and challenges from a biomechanical...</td>
</tr>
<tr>
<td>2019</td>
<td>Michiyoshi Ae</td>
<td>The next steps for expanding and deepening sport biomechanics</td>
</tr>
<tr>
<td>2020</td>
<td>David Lloyd</td>
<td>The future is in-field sports biomechanics</td>
</tr>
<tr>
<td>2021</td>
<td>Julie Steele</td>
<td>Long-term lessons learned in biomechanics</td>
</tr>
<tr>
<td>2022</td>
<td>João Paulo Vilas-Boas</td>
<td>Swimming biomechanics: from the pool to the lab... and back</td>
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</tbody>
</table>
Dyson Lecture vs Wartenweiler Lecture

Wartenweiler Lecture:
13% Related to Sports

Dyson Lecture:
14% Not Related to Sports
Sports and Acronyms?
The Name International Society of Biomechanics in Sports was selected without regard to other possible meanings that could be attributed to the acronym “ISBS”

Some definitions, in order of popularity, included:

- International Society of Biomechanics in Sports
- International Society for Biophysics and imaging of the Skin
- Iowa State Button Society
- I Should Be Sleeping
The Acronym “ISB”

Definitions for ISB:

- International Society of Biomechanics
- Investigative Service Branch (National Park Service)
- Imperial Securities Bureau (Star Wars - Secret Police of the Empire)
- I’m So Bored (Typical Biomechanics Student??)
ISBS WEB SIITE

Site was started by:
Hans Gros (Stuttgart University)
and
Manfred Vieten (University of Konstanz)

Site was hosted by the University of Stuttgart
Logo-Logo

Hans Gros
Provides Impetus for a Logo
The Vitruvian Man – Leonardo da Vinci
The Winner

Developed for the ISBS Conference in Bozeman, Montana - 1988

Ellen Kreighbaum
Host For ISBS VI
That logo sucks. Sucks, sucks, sucks.

It looks like it could be a logo for StepTech, or DigiTron, or HumanCorp. The old one looked like a seal, an emblem, something with dignity and tradition. This looks like something a graphic design student threw together the night before class. I like how the rainbow leads your eye directly to the letters “BS.”

There's your first clue.
Conference Logos

Bozeman - 1988

Ames - 1991

Amherst - 1993

Denton - 1997
MONEY-MONEY-MONEY
International Society of Biomechanics in Sports

ISBS
Treasurer’s Report
1 June 1984 – 31 May 1985

Account Status 1 June 1984 $000.00

INCOME

Professional Membership Dues 230.00
$10.00/Year

Student Membership Dues 36.00

Contribution
Research Center for Sports 20.00

Interest Received from Checking Account
1 Jun 1984 - 31 Dec 1984 0.71
1 Jan 1985 - 31 May 1985 2.79

Total Income 1 June 1984 – 31 May 1985 $289.50

EXPENSES

Stamps for Checks 7.02

Total Expenses 1 Jun 1984 – 31 May 1985 $7.02

BALANCE IN ACCOUNT 31 MAY 1985 $282.48

John Z. Ostarello
Treasurer - ISBS
Real Money

ISBS Treasurer - 1985

282.48 U.S. Dollars
799.42 U.S Dollars 2023 Equivalent

ISBS Treasurer - 2023

118,976.77 U.S. Dollars
FYI - For Your Information

Denton U.S.A. - 1997

Registration - $195 $368.55
Accommodations:
  Single - $15 $28.35
double - $20 $37.80
Shout Outs!

Acknowledgements

Some Members Who Believed in ISBS and Gave Extraordinary Time & Energy for the Society

Recognition

Appreciation
Hans Gros

Founding member
Life Member
President of ISBS 1996 -1998
V.P. Publications
  Introduced an online newsletter in – 2002
Driving force for a journal
Started the first ISBS web site with Manfred Vieten - 1997
Pursued the creation of a logo

“He was a principle force in making ISBS successful. Without fanfare, with shear force of will, and a great investment of time and effort, he made ISBS viable at a time when its viability was tenuous.”

John Ostarello-2006

More information about Hans:
ISBS Newsletter April 2006
Ross Sanders

President of ISBS 1998-2000
Life Member
Pushed & produced the Journal of Sports Biomechanics
First Editor of the Journal Coaches Information Service-1999-2012
Wrote an all-time record of emails
Manfred Vieten

President 2009-2011
Treasurer 2005-2015
Life Member
President & Treasurer for 2 years
Developed a computerized payment system
for ISBS members
Built the 1st Web page with Hans Gros-1997
Online Review process for conference submissions
Online Archive of ISBS Proceeding
Youlian Hong

President 2007-2009
Resolved ISBS ratification issue
Inter-Society Cooperation
Promoted meetings with other sport organizations.
Managed ISBS with careful consideration of issues
Barbara Gowitzke: Enters her hand written notes into computer in Greece

David Waddell: Rewrites ISBS constitution
ΣΥΝΤΑΓΜΑ ISBS
Ηέκδοση του 1987 του συντάγματος ISBS συντάχθηκε στην Αθήνα κατά τη διάρκεια του Symposium V. Δαβίδ Waddell ήταν ο αρχικός συγγραφέας, αλλά ο χειρόγραφος Άγγλος σημειώνει ότι παρήγαγε γράφτηκε σε έναν υπολογιστή που παρέχθη από τον Ελευθέριο Tsarouchas που φιλοξένησε τη συνεδρίαση. Όταν Waddell έφθασε πίσω στον Καναδό διαίρησε ότι η αγγλική εκδοχή του συντάγματος μεταφράστηκε μυστιριωδώς στα ελληνικά. Από τότε, όλες οι εκδόσεις του συντάγματος ISBS έχουν αντιμετωπίσει ισχεί όπως οι ως τελικά στα περισσότερα μέλη.
Peter Chenfu Huang
Life Member
Taipei Conference-2013

Two Remarkable Firsts
Duane Knudson

President 2019-2021
Life Member
V.P. Publications
Managed the Covid Crisis
Online Conference-2020
Virtual Mid-Year Conference-2021
ISBS Seeks Corporate Sponsorships

Burnett breaks the barrier. Creates tiered system for sponsors. Enrolls 3 corporate sponsors.

Angus Burnett
V.P. Public Relations
2005
ISBS Newsletters
Sara Clarke – 2014
Newsletter Editor Vol 30

Brought the Newsletter into the modern era

ISBS Newsletter
Volume 38, Issue 1
April 2023
23 Pages

ISBS Newsletter
Volume 1, Issue 1
12 Pages
ISBS Contribution to Biomechanics Textbooks
Kinesiology Texts

Rasch & Burke
1st Edition 1959

23 Chapters
#6 – Center of Gravity and Equilibrium
#7 – Mechanics
#8 – The Body as a Lever System

9.7% of Total Pages Devoted To Mechanics
Kreighbaum & Barthels - 1996

Ellen Kreighbaum
Fundamentals of Biomechanics
Third Edition
Duane Knudson - 2021
Other Book Contributions by Early ISBS Members

Plagenhoff, Stanley – 1971
Patterns of Human Motion: A Cinematographic Analysis

Bartlett, Roger – 1997
Introduction to Sports Biomechanics
Greeley - 1985

L TO R: Dr. Eleftherios Tsarouchas, Greece; Prof. Walt Cryer, Utah; Dr. Juris Terauds, California; Dr. Rene G. Therrien, Canada; Dr. Kathy Barthels, California; Dr. Stanley Plagenhoef, Florida; John M. Cooper, Indiana; Dr. Ellen Kreighbaum, Montana; Dr. Barbara A. Gowitzke, Canada; Dr. Marlene Adrian, Illinois; Dr. Anne Klinger, Oregon; Dr. Chengzhi Li, China; Dr. Eugene W. Brown, Michigan; Dr. Jerry N. Barham, Colorado; Dr. John Ostarello, California; Dr. Jukka T. Viitasalo, Finland.

At Greeley Conference but not pictured: Dr. Hans J. Gros, Germany; Dr. Larry Holt, Canada; Prof. Esam E.A. Moustafa, Egypt; Dr. David L. Kelley, Maryland; Dr. Nelson Ng, California; Dr. Larry Noble, Kansas; Dr. Anand Shetty, India; Prof. Hashem A. Kilani, Jordan; Dr. Hiroh Yamamoto, Japan.
And Now…

A Musical Interlude

Lyrics & Performance by Gay Ostarello
As I walked out in the streets of Greeley,
As I walked out in Greeley one day,
I spied a group dressed up in prison gray sweatsuits,
All jogging along, they were trying to play.

We’re here with the ISBS group, they told me,
And it IS BS we are quick to admit.
We talk about throwing and catching and running,
But don’t tell the athletes or the coach will have a fit.
Ode to ISBS – 1986
Halifax

To the delegates meeting here in Halifax,
We’ve come from all over to work and relax,
We gathered together here in ’86
So scientists, coaches, and jocks could all mix.

ISBS you’re the one for me,
I’ll not take a back seat to old ISB,
Here at ISBS we share ideas with ease
In Deutsch and Polish, and even Chinese.
Oh, give us a gym, where the jocks run and swim,
Where we measure each angle and force,
The data we plot, never mean a whole lot,
But we’re here to report them, of course!

We travelled afar, navigating by star,
On an airplane with only one prop,
Took hours or days, and a dozen delays,
No one made it to Bozeman non-stop.

Oh, ISBS, where sport engineering types meet,
Where seldom is heard, a perspiring word,
The Biomechanics elite.
Additional information about ISBS history can be found in the ISBS Archive for the 2008 Conference in Seoul, Korea

ISBS: The Evolution of a Revolution

John Z. Ostarello
California State University, East Bay
Hayward, California, U.S.A.
July 2008
The secret to having it all is Believing. You already do.