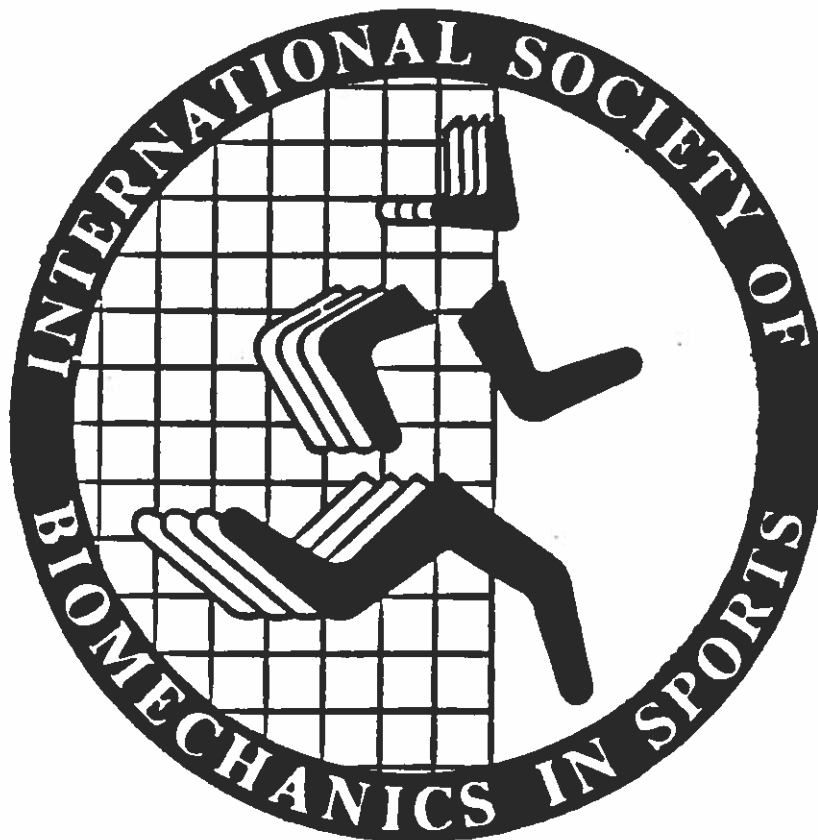


VOL. 6 NO. 2

WINTER 1989

SPORTS BIOMECHANICS

NEWSLETTER



VIII INTERNATIONAL SYMPOSIUM OF
BIOMECHANICS IN SPORTS

And
Videovestival

July 3 - 9, 1990
Prague, Czechoslovakia

CZECHOSLOVAKIA ASSOCIATION OF PHYSICAL CULTURE
INTERNATIONAL SOCIETY OF BIOMECHANICS
COLORADO STATE UNIVERSITY

MOTTO:

Improving performance in sports without drugs. Novel methods for elite training, coaching, teaching and sports for the handicapped.

OBJECTIVE:

The ISBS Symposium will provide a forum for an overview of current technical hardware, software and methods used in biomechanics. Included will be the latest research in elite athlete preparation, biomechanics in rehabilitation methods and biomechanical solutions to problems of the handicapped.

- a) Demonstration of hardware
- b) Latest software packages
- c) Experimental examples of results achieved using the demonstrated hard- and software.

VIDEOFESTIVAL

will highlight the state-of-the-art biomechanical analysis of techniques used in coaching and teaching practice. It will include photonic video utilization with: a) videoprogrammes, b) videoserries, and c) computer graphics, kinegrams, photographs, drawings, etc.

ORGANIZATION OF THE SYMPOSIUM:

Each session will start with a 30 minute paper by a selected biomechanics expert. All other papers of 15 minutes in the field of sports biomechanics, individual sport disciplines, regeneration, rehabilitation, methodological aspects of biomechanical research and the application of results in coaching practice will be presented and discussed. Also, results of interdisciplinary studies (not only from the point of view of biomechanics but also physiology, psychology, etc.) will be presented and poster sessions will be held.

MAIN PAPERS:

Paper to honour Dr. ARNE NOVAK, founder of Czechoslovak Biomechanics, entitled "Modern Trends in Biomechanics - Prospects for the 90's".

The GEOFFREY DYSON Memorial Lecture "Building on the Past - Standing on the Shoulders of Those Before Us".

SUGGESTED TOPICS FOR PAPERS AND POSTERS:

- 1) Biomechanical techniques used for different sport events
- 2) Biomechanics in regeneration and rehabilitation
- 3) Biomechanical problems with extreme loads
- 4) Biomechanics in coaching practice, training machines, coaching methods, etc.
- 5) Development of new hardware for research and its application
- 6) Software packages for biomechanics research and application
- 7) Interdisciplinary topics
- 8) Expert systems

PARTICIPANTS:

Specialists in the field of biomechanics. Specialists in methodology and techniques of sports. Specialists in biomechanics of regeneration and rehabilitation. Designers of training machines. Authors of videoprogrammes. Persons interested in the application of biomechanical research (the practitioners).

APPLICATIONS SHOULD BE SENT BY FEBRUARY 15, 1990.

REGISTRATION:

includes proceedings, receptions, symposium socials, and unlimited transportation in Prague on subway/tram/bus.

REGISTRATION FEE:

Members: \$ 200, Non-members: \$ 225. Students and "young biomechanists" (under 23 years): \$ 20. (Student and daily participants do not qualify for the proceedings)

PROPOSED PROGRAMME:

July 2 Arrival of participants: Board of directors
July 3 Opening sessio, introductory papers; papers, posters
July 4-5 Papers, posters
July 6 Social programme, a trip out of town
July 7 Papers, posters
July 8 Videofestival
July 9 Videofestival
 Reception given by the Czechoslovak Olympic Committee
 Awarding ceremony - FESTIVAL PRIZE
 Computer Graphics Prize
 Companies Prize
 Software Prize
July 10 Departures of participants; Board of Directors

Detailed information will be sent to interested persons.

For Information contact:

Dr. Karel Ontl
UV CSTV
Spatakiadni ul.
16000 Praha 6
CSSR Tel.: 590019

Dr. Petr Susanka, Dipl.ing.M.Nosek
Charles University - FTVS
Ujezd 450
11807 Praha 1
CSSR Tel.: 534551

VIII SYMPOSIUM IN PRAGUE

The VIII Symposium of the International Society of Biomechanics in Sports will be held in Prague, which is a very attractive city with many historical sites such as castles, museums etc. surrounded by beautiful nature.

Preparations for the symposium have been done with care conducted by Dr. Petr. Susanka in the Organizing and Scientific Committees. Approximately 160 participants from more than 15 countries are expected. The symposium site will be the Palace of Culture. The accomodation for participants will range from the dormitory to the luxury hotel level. In general, Czechoslovakia is an inexpensive country.

The scientific programme features several invited speakers including the Dyson Memorial Lecture. Exhibits with the latest instrumentation and publications have been planned. Special events include the poster session, receptions, socials, the videofestival and an optional trip in Czechoslovakia or to a neighbouring country.

The Symposium proceedings should be already available during the Symposium days. The Czechoslovak Olympic Committee is supporting the Symposium.

Looking forward to seeing you in Prague

With ISBS Symposium regards

Pekka Luhtanen, Ph.D.

Vice President of Conferences and Meetings

ISBS FAX DIRECTORY

At present, the following ISBS members have supplied their FAX numbers. If you have access to a FAX, please report your number to the Newsletter editors. Using FAX can improve communication between all ISBS members!

Gowitzke, Barbara	Canada	416-527-0100
Gros, Hans	W. Germany	711-685-3500
Hoshizaki, Blaine	Canada	514-398-4901
Kreighbaum, Ellen	U.S.A.	406-994-2893
Luhtanen, Pekka	Finland	358-41-291830
Mason, Bruce	Australia	61-62-512668
Morrison, Bill	Australia	61-3-689-4069
Muraki, Yuki	Japan	0298-53-6507
Ostarello, John	U.S.A.	415-886-4674
Terauds, Juris	U.S.A.	303-491-0620
Tsarouchas, Eleftherios	Greece	683-4021
Waddell, David	Canada	416-527-0100

ZOOM IN FOOTSRAY

Melbourne was not only the host city for the VIIth International Symposium of the Society of Biomechanics in Sports, but it also had the privilege of providing an arena for an international Zoom Festival (1). The initial and original PooBah of the Festival was Ms. Sandra Iuliano. However, the pace of the activities forced early PooBah changes which were directed to Dr. Bill Morrison (Australia), Dr. Joao Abrantes (Portugal) and Dr. Pekka Luthanen (Finland).

The non-stop action created a situation where Zoom tactics were required, this happened with the introduction of Schwartz. Pronunciation, excited pointing and interruption brought about some early penalties and aided in the development of some early team difficulties for Germany and Canada. But, the event continued and Canada was able to bounce back. The lack of numbers for China and the Netherlands led to problem but the efforts definately deserved honorable mentions.

Final placings in the event were as follows: 1. Australia, 2. New Zealand, 3. Canada, 4. Finland, 5. Portugal and 6. Germany.

(1) see also: "Australians Zoom Halifax", ISBS Newsletter Vol. 3 No. 2, December 1986.

Change of address...

Prof. Yukito MURAKI moved to
18-15 Inarimae, Tsukuba-shi, Ibaraki 305, Japan.
His business address remains unchanged:
Institute of Health and Sport Sciences
The University of Tsukuba, Tsukuba-shi, Ibaraki 305, Japan.

Hans J. ENGEL can be reached at:
Deutsche Zeitschrift fuer Sportmedizin (Ed.)
Breslauerstrasse 2, 5000 KÖLN 40, West Germany

+++++++ Conference news +++++++

The 1990 Biomechanics Seminar will take place from April 26 to April 27, 1990 at the Centre for Biomechanics at Chalmers University of Technology. The scope of the seminar is to present current research within the entire field of biomechanics.

For more detailed information and registration please contact:

Gunilla Ekman
Centre for Biomechanics
Chalmers University of Technology
S-41296 Göteborg, Sweden

FAX: 46-31-721192

+++++++ Conference news +++++++

**ISBS CONFERENCE PROCEEDINGS
1986 - 1988**

HALIFAX, 1986

The hitherto unpublished papers of the ISBS Symposium in HALIFAX will be available early next year. For more information please contact:

Dr. Juris Terauds
Sport Science
Colorado State University
Fort Collins, CO 80523, U.S.A.

ATHENS, 1987

The proceedings of the fifth International Symposium of Biomechanics in Sports, held in 1987 at ATHENS, Greece, can be obtained from:

Dr. E. Tsarouchas
Director of Biomechanics
Hellenic Olympic Committee
Sports Research Institute
37 Kiffissias Avenue
Maroussi, Athens, Greece

BOZEMAN, 1988

Papers from the 6th ISBS Symposium which were presented in BOZEMAN, Montana, USA, July 1988, are published in softcover book form and are available for purchase. Orders should be submitted accompanied by a check or money order in US\$ only including the shipping costs. The proceedings are 30 US\$ per copy. Add 3\$ for shipping in the USA, 4\$ for shipping to Canada or 5\$ for foreign shipping.

Make checks payable to "ISBS 6th Symposium-MSU".
Send your orders to:

Melanie Stocks, Conference Coordinator
Conference Center
Strand Union Building
Montana State University
Bozeman, Mt. 59717, U.S.A.

\$35.00 US

ISBS CONFERENCE PROCEEDINGS 1989

Proceedings of the VIIth International Symposium of Biomechanics in Sports, edited by William E. Morrison, Footscray Institute of Technology, Footscray, Victoria, Australia are available!

This symposium was held in July, 1989 under the auspices of the International Society of Biomechanics in Sports and its theme was "STRIDE INTO THE 1990's - with Sport Technology and Technique". Presentations included specific Biomechanical applications to highlighted Sports such as Swimming, Gymnastics, Tennis and Badminton.

Presenters in the Sport specific areas were Ernest Maglischo and Peter Hollander in Swimming; Peter Brüggemann in Gymnastics; Bruce Elliott in Tennis as well as David Waddell and Barbara Gowitzke in Badminton. Dr. John Basmajian lectured on muscular function, plasticity of CNS and biofeedback systems.

Other contributors included cinematographic specialists such as Rodano, Armour and Mason; transducer analyses by Milburn, Singh and Marino plus sport medicine papers by Steele and Hoshizaki. As well as many more recognized authorities in Sport Biomechanics. The Symposium consisted of more than 50 presentations and the proceedings include:

- over 300 pages
- 88 Figures
- 50 Tables
- 22 Photos
- 215 x 138 mm
- cover .014 Hi Yield Board
- sewn binding
- 80 gsm white wood free paper

Also included in the proceedings is the:

Geoffrey Dyson Memorial Lecture:
"Biomechanics: Its Role in Sports Performance"
by Bruce Elliott, Ph.D.
Department of Human Movement and Recreation Studies
University of Western Australia

The material is definitely current so purchase your copy and get the library to order early so students can stay up to date.

Costs: ISBS Members \$30.00 (plus \$3.00 postage)
Non members \$40.00 (plus \$3.00 postage)
Libraries or Institutions \$50.00 (plus \$3.00 postage)

Payment: Orders must be accompanied by an international cheque or money order made payable to: BIO-MECH

Dr. Bill Morrison
Dept. of Physical Education and Recreation
Footscray Institute of Technology
P.O. Box 64
FOOTSCRAY, Victoria 3011, Australia

+++++++ Conference news ++++++

ISEK - 8th International Congress
August 12-16, 1990
Sheraton Inner Harbor Hotel
Baltimore, Maryland, USA

The aim of the international congresses of ISEK is to offer on a bi-annual basis, an international forum for the presentation and discussion of recent advances in Elektrophysiological Kinesiology.

For more detailed information and registration please contact:
ISEK 1990 Congress Secretariat
P.O. Box 986
Hunt Valley, MD 21030, USA

+++++++ Conference news ++++++

**Publications
available from BIO-MECH**

- Group Dynamics in Sport - A.V. Carron \$25.95
- Proceedings 5th Biennial Conference and Symposium -
Canadian Society for Biomechanics - 1988 \$20.95
- The Measurement and Cohesion in Sport
Teams: The Group Environment Questionnaire -
W. N. Widmeyer, L. R. Brawley and A. V. Carron \$12.95
- Maximal Aerobic Power -
R. L. Mirwald and D. A. Bailey \$12.95
- Performance in Endurance Events
P. Ledoux and T. Brisson \$26.95
- Motivation: Implications for Coaching and Teaching
A. V. Carron \$17.95
- A Mental Game Plan - J. G. Albinson and S. J. Bull \$13.95
- Planning and Conducting Meetings - a handbook for
amateur Sport and Recreation animators - T. Slack \$ 6.95

For ordering information please see page 8, 1989 ISBS proceedings
(W. E. Morrison, Footscray, Australia)

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Training Management Systems, the Sports Science Research Division of SyberVision Systems Inc., is interested in marketing worthwhile instructional videos of sports performance on a royalty basis. If any members would be interested in discussing marketing possibilities, please contact Dr. L. Pataki, Training Management Systems, SyberVision Systems Inc., 7133 Koll Center Parkway, Pleasanton, California 94566. Dr. Pataki can also be contacted by phone at 415-846-2244 Extension 410.

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Three Unique Books...

Prior to the 23rd World Gymnastics Championships in Montreal in November 1985, the World Scientific Congress brought together over 400 of the best international specialists in gymnastic coaching and sport science for four days of intense workshops, stimulating lectures and seminars. The theme was Analysis of Gymnastic Talent, and the most up-to-date information was presented on international gymnastic training systems, innovative measurement techniques, safety, psychological planning and skill analysis. In these three volumes, some 77 authors share their gymnastic art and science with you.

- World Identification Systems for Gymnastic Talent

Edited by B. Petiot, J. H. Salmela and T. B. Hoshizaka.

Various international talent identification and analysis systems from North America, eastern and western Europe, and Asia are highlighted. This is a useful guide to gymnastics planners, administrators and decision makers.

ISBN 0-920295-07-x, 19 contributions by 31 contributors (\$25)

- Diagnostics, Treatment and Analysis of Gymnastic Talent

Edited by T. B. Hoshizaki, J. H. Salmela and B. Petiot.

The focus here is on state-of-the-art methods in sport medicine, biomechanics and computing science within the field of gymnastics. Specific treatment is given to the issues of safety and injury diagnosis, innovative skill analysis techniques and medical intervention.

ISBN 0-920295-05-03, 16 contributions by 26 contributors (\$25)

- Psychological Nurturing and Guidance of Gymnastic Talent

Edited by J. H. Salmela, B. Petiot and T. B. Hoshizaki

The field of applied sport psychology takes center stage in this volume. A variety of mental training techniques and integrated systems in Psychological assessment are viewed from an international perspective. Special treatment is given to mental preparation for training and competition and preventing dropouts in gymnastics.

ISBN 0-920295-03-07, 23 contributions by 37 contributors (\$25)

These three books can be ordered from:

Sport Psyche Editions,
202 Roy
Montreal, PQ H2W 1M4, Canada

+++++++ Conference news +++++++

TECHNIQUES IN ATHLETICS
- The first International Conference -
7 - 9 June 1990
Cologne

The Institute for Athletics and Gymnastics at the German Sports University and the Federal Institute of Sports Science organizes under the auspices of the International Athletic Foundation and in cooperation with the German Track and Field Federation the first International Conference "Techniques in Athletics".

The purpose of the conference is to provide a forum for the presentation of applied research, particularly in biomechanics, related to techniques in athletics. The focus will be on the relationship of these investigations to the optimization of each athlete's technique. In other words, the conference will seek to bridge the gap between biomechanical research and the application of its results in practise. The conference will include invited lectures and free communication. The primary aim will be to bring researchers and coaches to a mutual level of knowledge concerning athletic techniques. On this basis future investigations can be planned.

There will also be a pre-conference workshop which will cover scientific methods for the study of athletic performance (June 4 to June 6).

For more detailed information and registration please contact:

TIA - Secretariat
Institut für Leichtathletik und Turnen
Deutsche Sporthochschule Köln
Carl-Diem-Weg 6
5000 Köln 41 FRG

+++++++ Conference news +++++++

The VIth International Symposium of Biomechanics and Medicine in Swimming will be held September 7 - 11, 1990 at the Liverpool Polytechnic in England.

The aim of the Symposium is to provide a forum in which research related to swimming is reported and problems that confront swimming practitioners are debated. The Symposium is held under the aegis of the International Society of Biomechanics and the World Commission of Sports Biomechanics. The Symposium is multidisciplinary: besides biomechanics and medicine, any of the human sciences used for research into swimming is relevant.

For more detailed information and registration please contact:

Don MacLaren
National Coaching Centre
Liverpool Polytechnic
I.M. Marsh Campus, Barkhill Road
Liverpool L17 6BD, England

+++++++ Conference news +++++++

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