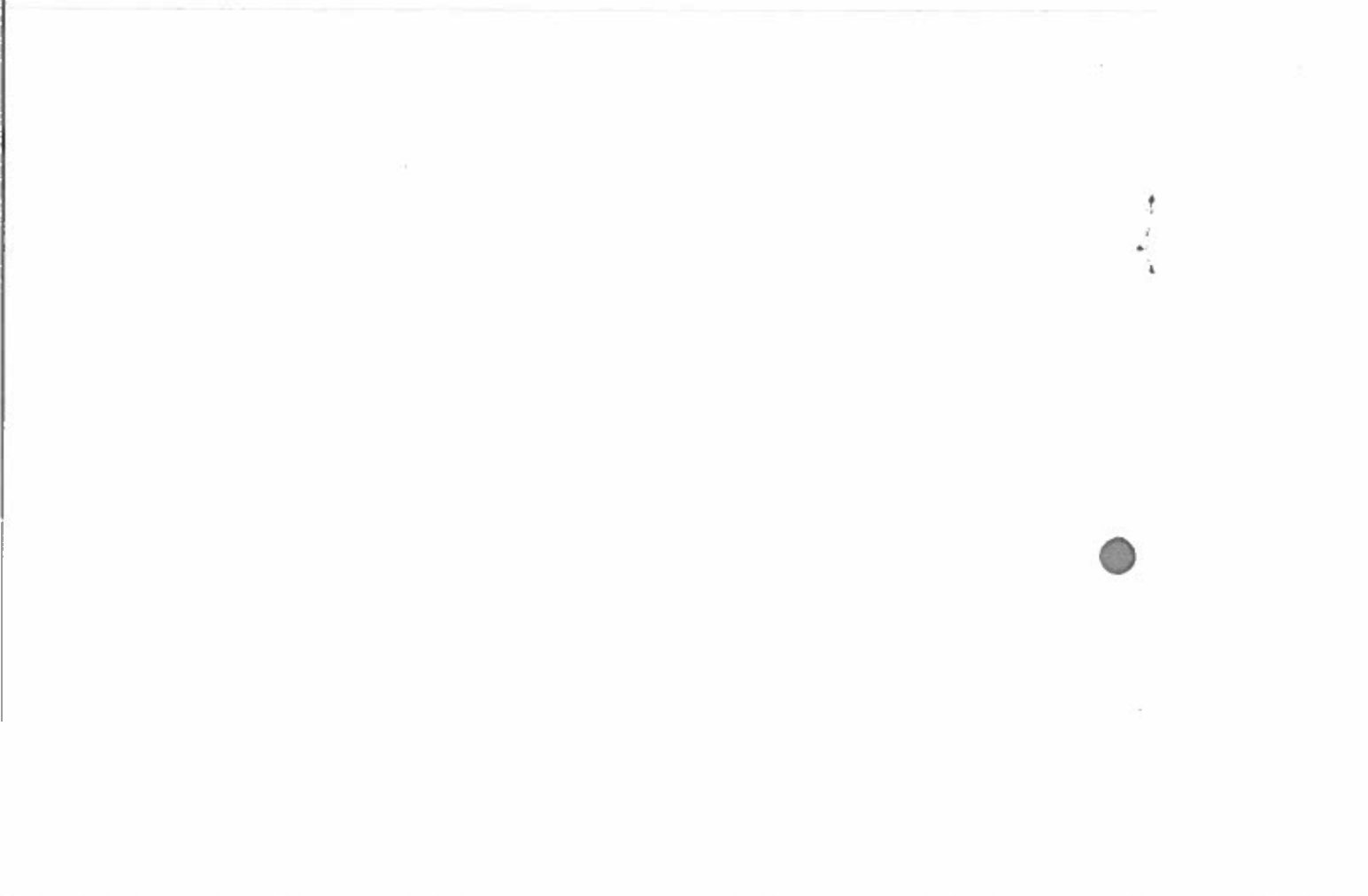


*International Society of Biomechanics in Sports
Newsletter*



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President's Message: Renato Rodano

We are approaching the XVth ISBS Symposium which is to be held in Denton (Texas) from June 21-25, 1997. Jerry Wilkerson has informed me that 140 abstracts have already been submitted. This is a good result: in spite of the economical difficulties facing the research world, the meetings proposed by ISBS can guarantee a cultural continuity, able to push the interested people to overcome the difficulties. I wish Jerry and his collaborators that ISBS '97 can represent another important brick in the building that ISBS has been constructing for the past 15 years.

I am very optimistic, for the managers of the Society have shown an increasing effort to stimulate exchanges of information, data, and thoughts. Overall, the organisation of our Society is becoming more and more solid and efficient. I would like to thank Hans Gros, the elected president of ISBS, who is offering to the Society and to the president a qualified contribution and started new enterprises, an important investment for the future.

Together with the numerous positive events, I have to record also a negative one: Professor William Morrison, Vice President of Public Relations, resigned from his task due to personal and work commitments. On the one hand I am glad that Professor Morrison is succeeding in his work; on the other, we miss a really valid ISBS member. Best wishes, Professor Morrison. A letter of thanks which I sent to Professor Morrison for all his work is included later in this Newsletter.

Following the resignation of Professor Morrison, I nominated Professor João Abrantes, Chair of the XIV Symposium held in Madeira in 1996, as Vice President of Public Relations. I have known Professor Abrantes for a long time. I have followed his efforts to promote ISBS, and I am sure his contribution will be qualified and important.

I now would like to comment on three words I used to formulate my message in the previous Newsletter:

1. Membership,
2. Communication, and
3. Cooperation.

Membership

Sport Biomechanics is a young discipline, as is ISBS. At 15 years the Society is entering an age in which it is necessary to develop and to orient the shape of the Society to define goals to reach relative to the development of Biomechanics and sports. The members of ISBS have well defined goals. The path to reach these goals is often difficult and complex, and it is therefore necessary to maintain the shaping process as active as possible.

The increasing solidity of the organisation stimulates in this sense the ISBS members, but cannot automatically drive to obtain the wished results. The continuous and rapid evolution of the discipline requires a methodological renovation. I think that this mandatory effort can be facilitated by two main factors: the discussion and the acquisition of new members.

As far as the discussion is concerned, I am going to promote a corner of debate at the ISBS Web site, open to members and non-members. This corner will represent an important source of information to drive our future work.

Concerning the acquisition of new members, I think all of us should reinforce our own actions and involve students and young researchers in ISBS activities. In order to do this, everyone is aware of the fact that a valid instrument to enthuse new researchers is to let them spend a period of work or study in other Universities or Centers. Unfortunately, ISBS cannot finance these kind of exchanges but, thanks to its members, it can diffuse information regarding the possibilities of exchanges. I invite all of you to send your opinions and information regarding these concepts to me via email on: rodano@regolo.cbi.polimi.it or to the editor of this newsletter, Julie Steele.

Communication

The benefits of ever increasing rapid and efficient information transmission, thanks to the Internet, is also helping ISBS. You are probably aware that the organisers of ISBS '96 and ISBS '97 have published the announcement of their Symposia on the Web. Manfred Vieten, the Chair of ISBS '98, is

working in order to allow participants to register and send abstracts via email electronic pathways. He is also aiming to publish the Abstract Book in this way. Since these opportunities represent additional work for the local committees, I invite the future Symposia organisers to consider this aspect. The path opened by Cindy Tant in the world of the Internet, who developed the first Web Site for ISBS, continues to be walked by our Society. Thanks to the efforts of Hans Gros and Manfred Vieten, the site has been revived and renewed. Details of this site are described later in this Newsletter.

Cooperation

The process of cooperation, described in the previous newsletter, is active. Fruitful exchanges have been held between Peter

Cavanagh and Günter Rau (President and Elected President of ISB) and myself. As ISBS president, I am also going to represent ISBS at the XVI ISB conference to be held next August in Tokyo. I believe this experience, that I hope will lead to further inter-Society cooperation, represents a positive example so as to encourage me to maintain open politics and to promote meetings with all the Societies that work in paralleled and linked fields.

I wish to meet all of you in Denton, and to discuss with you our future programs.

Renato Rodano

Vice Presidents' Reports

VP Awards: Eugene Brown

Awards Committee: Aniko Barabás (Hungary), Barbara Gowitzke (Canada), Renato Rodano (Italy), Cynthia Tant (USA), and Eugene Brown (USA).

The Awards Committee of ISBS for 1995-97 have been active in carrying out our responsibilities. This activity has included the selection of Dr. David A. Winter of the University of Waterloo, Canada as the 1996 recipient of the Geoffrey Dyson Award. We have also put into place a set of guidelines that standardises the selection process for the New Investigator Award. These standards were utilised for the first time at our XIVth International Symposium in Madiera, Portugal where Ms. Laurie A. Malone of the University of Alberta, Canada was selected as the 1996 recipient. Our Committee has reviewed the nominees for the 1997 Geoffrey Dyson Award and has selected the winner, Dr. Pekka Luhtanen, Research Institute for Olympic Sports, Jyväskylä, Finland, who will present the Memorial Geoffrey Dyson Lecture at the XVth International Symposium to be hosted by the Texas Woman's University in Denton, Texas. The Awards Committee is planning an "ISBS Awards and Recognition" display area (table and bulletin board) for our upcoming symposium in Denton. In general, this area

will have a listing of past award winners, a display of the Geoffrey Dyson award and the New Investigator plaque, literature on the various awards of ISBS, and forms for making nominations. We encourage you to visit the members of the Awards Committee at the display area, provide us with your thoughts on the awards process, and to nominate those deserving of recognition. If you cannot attend the Symposium in Denton, please send your nominations and comments to me at the address below:

Eugene Brown, ISBS VP Awards
Institute for the Study of Youth Sports
Department of Physical Education and
Exercise Science
Michigan State University
204 IM Sports Circle Building
East Lansing MI 48823 USA
Phone: +1-517-353 6491
FAX: +1-517-353 5363
Email: ewbrown@pilot.msu.edu

Eugene Brown

Oops!

Please note that there was an error in the email address recorded for Eugene Brown in the last Newsletter! The correct address is now listed above. Sincere apologies to anyone who was frustrated by this error!

**VP Research & Projects:
Larry Noble**

**1996 World Gymnastics
Championships Research Project
Summary**

The 1996 World Gymnastics Championships Research Project involves providing interested biomechanists around the world access to instrumentation videographic and dynamographic recordings of selected parallel bar and horizontal bar events during the 1994 World Gymnastics Team Championships held in Dortmund, Germany. The project is coordinated by Larry Noble, Vice President for Research and Projects, and Juergen Krug. Other members of the research committee were Hans Gros, Bill Morrison, and Spiros Prassas. Invitations to submit proposals to conduct research using project materials were distributed at the conference in Madeira, in the Fall 1996 Newsletter, and on the Internet (BIOMCH-L). Details of the project were also placed on the web to be accessed by those interested. The following three proposals were reviewed and approved. PI's were provided with videotapes and diskettes containing associated dynamographic recordings and are now in the process of analysing the data. They plan to present the results of these projects at future ISBS symposia and to pursue publication of related manuscripts in appropriate scientific journals.

Investigator: Spiros Prassas
Institution: Colorado State University,
USA.
Project: Technique Analysis of Uneven
Dismounts and Release Skills

Investigators: John Newton and Philippa
Armitage
Institution: Leeds Metropolitan
University, England.
Project: A Comparison of Kinetic and
Kinematic Data Generated in
the Performance of a Normal
Backward Giant Swing, and
the Performance of a
Backward Giant Swing Prior
to a Release Element on Men's
Horizontal Bar

Investigators: John Newton and Philippa
Armitage
Institution: Leeds Metropolitan
University, England.
Project: An Analysis of the Kinematic
and Kinetic Data Generated in
the Performance of the
Kovacs, and the Backward
Giant Preceding it, on Men's
High Bar

When possible, I and the research committee are working to help provide interested researchers with kinetic and kinematic data of elite sports competitions. Please provide us with any ideas or suggestions you might have to assist us in continuing to serve our membership by facilitating and supporting their research efforts.

Larry Noble
ISBS VP for Research and Projects
Department of Kinesiology
8 Aheam Natatorium
Kansas State University
Manhattan KS 66506
Phone: +1 (913) 532-6979
Fax: +1 (913) 532-6486
Email: lnoble@ksu.ksu.edu

Larry Noble

**VP Publications:
Julie Steele**

The response to the re-emergence of the ISBS Newsletter has been overwhelming with email messages flooding in expressing delight to see communication channels reopened. However, as stated in the last Newsletter, the quality of this newsletter depends upon contributions from you. So please... start sending in those items of interest.

Included with your last Newsletter was a letter providing members with the option of receiving the Newsletter in hard copy form or via down loading it from the ISBS home page. It seems that even in these times of modern technology most of us still enjoy receiving hard copies, with an almost unanimous response to keep the hard copy in circulation. This being the case, all members will still receive the Newsletter as a hard copy.

However, those members who requested to be notified when each addition is updated on the home page will receive such notification via email.

Newsletter Deadlines

Two ISBS Newsletters will be published each year, one in October (Fall/"Down Under" Spring Edition) and one in May (Spring/"Down Under" Fall Edition). Deadlines for the receipt of material will therefore be September 1 and April 1 each year. Material to this Newsletter can be submitted in any form but please supply your email and/or FAX address with any report so that further information can be obtained from you if required. Start sending YOUR contributions for the next ISBS Newsletter now to:

Julie R Steele
VP Publications ISBS
Department of Biomedical Science
University of Wollongong
Northfields Ave
Wollongong NSW 2522
AUSTRALIA

FAX: +61 (42) 214 096
Email: j.steele@uow.edu.au

NEXT DEADLINE: September 1 1997

ISBS Publications

Proceedings of the XIII International Symposium on Biomechanics in Sports, held at Lakehead University, Thunder Bay, Ontario, Canada, 1995, can still be purchased.

Price: \$CDN 70 plus postage
(\$5 CDN; \$10 OS)

From: Lakehead University Bookstore
955 Oliver Road
Thunder Bay, Ontario Canada
P7B 5E1

The Order Form appeared in the last Newsletter.

Proceedings of the XIV International Symposium on Biomechanics in Sports, held in Funchal, Madeira, Portugal in 1996, are now available for purchase.

Price: PTE 5,000\$00 (including postal taxes)

From: Faculdade de Motricidade Humana
Serviço de Edições
Estrada da Costa - Cruz Quebrada
1499 Lisboa Codex
PORTUGAL

The Order Form is available at the end of this Newsletter.

Julie Steele

ISBS Elections: It's voting time again.....

In April 1997 all financial members should have received a ballot to vote on the following offices of the Executive Council: Secretary General, Treasurer, Vice President of Awards, Vice President of Conferences and Meetings and Directors. Details of the Current Officers and the duties of these positions were described in the last Newsletter. If you have not received your ballot and you are a FINANCIAL member, please contact:

Hans J. Gros
Institut für Sportwissenschaft
Allmandring 28
70569 Stuttgart Germany
Phone: +49-711-6853177
Fax: +49-711-6853165
e-mail: ispgross@servus.rus.uni-stuttgart.de

Hans Gros

ISBS Executive Council Directory

The current members of the ISBS Executive Council and their contact information are listed below. Please feel free to contact any member of the Executive if you wish to discuss matters relevant to ISBS.

President:

Renato Rodano
Centro Di Biongegneria (Politecnico
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Phone: +39-2-403 083 05
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President Elect:

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Email: hans.gros@sport.uni-stuttgart.de

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Email: ewbrown@pilot.msu.edu

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FAX: +36-1-1566 337
Email: barabas@samuel.hupe.hu

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FAX: + -351-14191248
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Vice President Research & Projects:

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Email: lnoble@ksu.ksu.edu

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ISBS Profiles: Get to know your Executive and Board!

In an attempt to get to know who is representing you, brief profiles of different members of the ISBS Executive Council and Board of Directors will be included in the next few Newsletters. In the last issue profiles on the President, Renato Rodano; President Elect, Hans Gros; and VP Research & Projects, Larry Noble were included. This edition features two more profiles: VP Awards, Eugene Brown and Manfred Vieten, ISBS Director and host of ISBS '98.

Vice President for Awards : Eugene Brown

Eugene Brown has been a member of ISBS since 1984. During this time he has served the Society in a variety of roles. These roles have included membership on the Executive Council (Secretary General, 1990 - 93; Vice President of Awards, 1995 - 97), on the Board of Directors, and on various ad hoc committees. As the Vice President of Awards, Gene has been instrumental in developing a set of documents that were used for the first time in Madeira, Portugal to systematically evaluate the abstracts and presentations of members competing for the ISBS New Investigator Award. These documents can also be very helpful to all members in preparing and delivering professional presentations. He is presently in the process of composing documentation to facilitate the identification and selection of other ISBS awards recipients. Gene plans to have an Awards Committee display at our next symposium in Denton, Texas to highlight the ISBS awards and to recognise its past recipients.

Gene is currently serving on the International Scientific Committee for the XVth ISBS Symposium in Denton, Texas. To date, he has attended and presented at 9 of the 14 ISBS symposia. He has also encouraged his graduate students to become actively involved with ISBS by motivating them to present papers and car pooling with them to symposia that have occurred in North America!

Gene received his undergraduate degree from the State University College at Cortland, New York. He completed a master's degree at the University of Iowa and a doctoral degree in physical education at the University of Oregon with an emphasis in the biomechanical analysis of physical activity. Dr. Brown is a

faculty member of the Department of Physical Education and Exercise Science at Michigan State University where he teaches undergraduate and graduate courses in structural and biomechanical analysis of physical activity. At MSU, he is also a faculty member of the Institute for the Study of Youth Sports (YSI). His role in YSI is threefold:

- writing educational materials (eg., *Youth Soccer - A Complete Handbook and Program for Athletic Coaches Education*),
- conducting in-service training programs for individuals involved at various levels of youth sports, and
- researching youth involvement in sport.

His interest in biomechanics and youth sports has resulted in studies of sport performance, as well as the study of injury mechanisms, in young athletes.

Gene has a keen interest in the sport of soccer which he has coached at collegiate level. He has served as a volunteer soccer coach with youth teams since 1973, beginning with his oldest son's team. He has also coached his second son's teams and is possibly finishing up his role as volunteer coach, now that his daughter is about to go on to college.

ISBS '98 Host and Director: Manfred Vieten

Manfred Vieten was born 1955 in Neuss (a city more than 2000 years old located close to Duesseldorf and Cologne). After completing high school, Manfred studied physics at the Siegen University in Germany. In 1979 he received a Diploma in experimental physics; thereafter doing a Ph.D thesis in theoretical

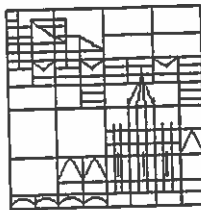
high energy/particle physics. After receiving his Ph.D in 1985 and completing a 1 year post doctoral position, Manfred worked for the commercial sector for over 5 years.

In 1991 Manfred joined the Department of Physical Education at the University of Konstanz as permanent staff member. He currently lectures in Biomechanics to both undergraduate and postgraduate PE students and is involved in the coordination and maintenance of the Ph.D program. Manfred also teaches judo and general martial arts.

At a personal level, Manfred had been active in canoeing and table tennis during his school and high school years and competed at district level. During his university years he started Judo and competed for the Siegen University and on state level. He also coached Judo and physical fitness. Later on Manfred began a second martial art - the Korean art known as "Kung Jung Mu Sul" (KJMS). He currently holds two black belts (a 2nd degree black belt in Judo, and a 1st degree black belt in KJMS)

The focus of Manfred's research is in the field of movement analysis, including kinematics, mathematical modeling, simulation, and dynamics/inverse dynamics. His research has involved various sports such as running, jumping, trampolining, biking, martial arts and the like.

In terms of ISBS involvement, Manfred has been a member of ISBS since 1992 and on the Board of Directors since 1996. He is also a member of ISB and of DPG (German Physics Society). For the future Manfred hopes to help turn ISBS into a more active organisation, especially in terms of expanding the promotion of sports biomechanics, and motivating young researchers and coaches. This could be achieved by organising ISBS summer schools and by developing a information center accessible via the Internet. Manfred is also the main driving force of the 1998 ISBS symposium to be held in Konstanz (see Symposium details below).



1998 ISBS Symposium

The XVI Symposium of ISBS is to be held in Konstanz, Germany from July 21-25. The Symposium is to be hosted by the University of Konstanz, Department of Sports Science, Lehrstuhl Riehle.

The symposium topics will include:

- Pure and Applied Sports Biomechanics
- Modeling, Simulation, Optimisation in Sports Biomechanics
- Applied Methods and Instrumentation
- Biomechanics of the Musculo-Skeletal System
- Biomechanics of Training and Sports Equipment
- Biomechanics of Injuries, Orthopaedics and Rehabilitation in Sports

Each of the topics will be introduced by a keynote lecturer.

The Symposium address is:

University of Konstanz
ISBS '98 Secretariat
P.O. Box Konstanz
GERMANY
Phone: +49-7531-883565
FAX: +49-7531-884221
email: ISBS98@uni-konstanz.de

If you are interested in receiving further information about the Symposium, add your name to the Symposium mailing list on the Symposium home page:

<http://www.ISBS98.uni-konstanz.de>

Over the next few months this home page will be enlarged to contain more information about the scientific program, the social program, the symposium location, fees, accommodation, and registration. Major changes will also be announced via e-mail.

So... put these dates in your diary!

Membership Fees

Did you receive the recent ballot paper for the ISBS elections? If not, you may no longer be a financial member of ISBS. See the membership form at the end of this Newsletter for payment details.

Please pay your ISBS membership for 1997 now if you have not already done so!

ISBS Board of Directors

The following people were elected to serve your interests on the ISBS Board of Directors:

1996-1998

1995-1997

Joao Abrantes	Portugal
John Osterello	USA
Ross Sanders	Australia
Lela June Stoner	USA
Frantisek Vaverka	Czech Republic
David Waddell	Canada

Gideon Ariel	USA
Barbara Gowitzke	Canada
Jackie Hudson	USA
Patria Hume	New Zealand
Ellen Kreighbaum	USA
Pekka Luhtanen	Finland
Stuart Miller	Wales
Miriam Satern	USA
Rene Therrien	Canada
Manfred Vieten	Germany
Jerry Wilkerson	USA

Contact details for each Board member is listed on the ISBS home page.

Laboratory Feature: Centro di Bioingegneria

The "Centro di Bioingegneria" was established in 1976 by an official agreement between the Pro Juventute-Don Gnocchi Foundation and the Politecnico of Milan. Since its foundation, the "Centro di Bioingegneria" has been directed by Antonio Pedotti, full professor at the Politecnico di Milano, Department of Bioengineering.

The aim of this initiative was to create a suitable interdisciplinary environment in which research in informatics, microelectronics, advanced technology and mathematical modelling could be integrated with the most recent developments in the medical and biological fields in order to increase knowledge and produce new developments for medicine and rehabilitation. Consequently, the operational objectives of the Centre are to perform basic research and develop technology for clinical applications. The operative philosophy is to maintain an

interdisciplinary environment and to foster collaboration and information exchange with international research groups.

Four main areas of research are presently active:

1. Biomedical Technologies
2. Neuromotor and Posture Control System (the Centre is provided with the most advanced technology for gait and posture analysis, including the prototype of the Demonstrator)
3. Cardiovascular and Respiratory Systems
4. Technical Aids and Informatics for the Disabled

L.A.M.S (Laboratory for the Analysis of Movement in Sports)

From the beginning of activities of the Center of Bioengineering extensive and varied

research has been conducted to analyse movement during sports. The cultural meaning of this research is the collection of quantitative information on the "man system" when loaded close to his/her maximum potential. This research is conducted with the aim of preventing and improving sports performance and of optimising training programs and rehabilitation procedures after injury. With this aim we have conducted research programs in collaboration with the Italian National Olympic Committee (CONI) and some of the most important sport federations in Italy (athletics, gymnastics, ski, rugby, fencing, archery), with the National Center for Research (CNR) and with other corporations working in the same area. Some research is focussed on analysing loads on the musculo-skeletal system sustained during the execution of the technical movement, whereas other research has been directed towards evaluating the risk/benefit ratio related to specific training exercises (plyometrics).

As far as the prevention aspect is concerned, the study of impact dynamics between the sword and the athlete in different fencing specialties has lead to the development of some improvements to protective equipment. Vast experience has also been acquired in the area of specialist sports shoes. The shoes represent the only way to control the loads exchanged between the athlete and the ground. Extensive effort has also been directed towards the analysis of sport movements displayed by disabled athletes, for example, the analysis of wheel chair propulsion techniques.

Research activity is now performed inside a dedicated laboratory, which is named L.A.M.S. The person responsible for running the laboratory is Renato Rodano, who is supported by four bioengineers, a physical education teacher and a technician. Several students of the Politecnico di Milano conduct

experimental activities for their theses at L.A.M.S.

The laboratory is equipped with automatic motion analysers, force plates and electromyographic equipment.

Active Programs

Motor evaluation and rehabilitation. The goal of this program is quantification of the presence of functional deficiencies due to injury. This research has allowed development of a protocol to evaluate the lower limbs using vertical jump exercises.

Analysis of bilateral motor asymmetries. The goal of this program is quantification of bilateral asymmetries in athletes practicing cyclic sports such as cycling and running. Cinematic and dynamic asymmetries are often correlated to increasing pathologies due to stress. A first result from this research is the development of a protocol to analyse posture on the bike and of the kinematics of pedaling.

Multifactorial analysis of performance. The goal of this program is quantification of a particular phase of a discipline through determined movement parameters and to correlate them to the motor aspects they represent. This is a valid method to improve performance. An example is given by a protocol to evaluate the efficiency of starting from blocks during sprint, with which it is possible to evaluate the center of mass velocity and at the same time to describe the joint kinematics.

To inform you as members of the activities of Biomechanics laboratories around the world, it is intended to include Laboratory Feature as a regular part of the Newsletter. However, I need to know what you are up to in your labs! Please send any relevant information to me via j.steele@uow.edu.au.

NEW ISBS WWW Site

Visit the new ISBS Home Page located under the URL:

<http://www.uni-stuttgart.de/External/isbs/>

At present the following information and services available are:

1. A membership application form. After the Denton Symposium, an on-line registration form will be available.

2. You can find addresses, phone, fax and e-mail numbers of all ISBS officers and can contact each officer with a simple mouse click.
3. The minutes of the AGM, 1996, Funchal, Madeira are supplied by the Secretary General, Cindy Tant.
4. Constitution and By-Laws of ISBS are necessary for the smooth operation of ISBS. These too can be found on the home page.
5. The Newsletter will be available starting in Fall of 1997. ISBS members will of course continue to receive the printed version (see VP Publications Report).
6. All past conference sites are given. There are links to the home pages of upcoming ISBS conferences.
7. ISBS facilitates research proposals made by members. Currently, the second project on Gymnastics research, initiated by J. Krug and co-ordinated by L. Noble, VP Research, is under way. See details on the home page.
8. Links are provided to the Biomechanics World Wide and the ISB home page. Here you find a wealth of interesting information.
9. The Section 'Publications' will feature a search tool to access all papers published in



[Start Page](#)

previous conferences (title and author). Starting with the 1998 Symposium in Konstanz, Germany, full papers will be made available on the net.

10. The 'Selected members' frame will contain information about ISBS members. YOU are now invited to supply such information to:

hans.gros@sport.uni-stuttgart.de

Please indicate title, name, e-mail and/or WWW, affiliation, expertise and current projects. All this should be very brief (keywords). If you just want your name, affiliation and e-mail in the list, that's fine too.

So now you can keep in touch with what your Society has been up to on a regular basis! Thanks are extended to Hans Gros and Manfred Vieten for setting up this site!

However, the quality and development of the ISBS home page depends on the feedback and contributions of the membership. So, please send your comments, criticism, suggestions and contributions to Hans or Manfred.

Thanks to Bill Morrison

Dr. WILLIAM EAN MORRISON was one of the early members of the International Society of Biomechanics in Sports. He was elected as a member of the Board of Directors in 1984 and held Board and Executive positions until 1996. More specifically, he became President Elect in 1990 and held the Presidency in 1992 and 1993. Thereafter he served as Vice President of Public Relations.

Dr. Morrison organised and chaired the VIIth Annual Symposium of the ISBS in Melbourne, AUSTRALIA, in 1989.

Throughout the years, Dr. Morrison established a reputation as an outstanding researcher, lecturer and administrator. His professional work and personal qualities were highly esteemed and were instrumental in furthering the goals of ISBS.

On behalf of the International Society of Biomechanics in Sports, I wish to express to Dr. Morrison sincere gratitude and best wishes for future endeavours.

Dr. Renato Rodano
President, ISBS

March 1997

1997 ISBS Symposium

The XV International Symposium of Biomechanics in Sports is to be jointly hosted by the Department of Kinesiology, the College of Health Sciences and the Department of Continuing Education at Texas Woman's University, Denton, Texas, USA. The Symposium will be held June 21 to June 25, 1997 and will provide a forum for researchers, teachers, coaches, and practitioners in sports biomechanics.

Geoffrey Dyson Lecture

The Geoffrey Dyson Memorial Lecture will be given by Dr. Pekka Luhtanen, Finland. His lecture is entitled "How Biomechanical Research Can Help the Coach."

Keynote Lectures

- "Comparison of biomechanical aspects of performance in elite male and female track athletes", Marion Alexander, University of Manitoba, Canada
- "Causal mechanisms for improved performance or injury reduction: An essential part of sports biomechanics research", Bruce Elliott, University of Western Australia, Australia
- "Neuromechanics of specific training skills", Dr. Axel Knicker, German Sports University, Germany
- "Biomechanical applications to USA Olympic athletes", Dr. Sara Smith, US Olympic Training Center, USA

Tentatively, 13 oral sessions (60 presentations) and 6 poster sessions (60 posters) have been scheduled. Symposium topics will include:

- Pure and Applied Sports Biomechanics
- Biomechanics in Coaching and Teaching
- Applied Methods and Instrumentation
- Computer Simulation and Optimisation
- Biomechanics of Sports Rehabilitation
- Biomechanics of the Musculoskeletal System
- Biomechanics of Training and Sport Equipment
- Biomechanics in Sport for Special Populations

Tentative details of the social program are:

- Fri June 20: Welcome Reception
- Sun June 22: Dinner and travel to Ranger Baseball Game
- Mon June 23: Texas Lil's
- Tue June 24: ISBS Banquet

The following members form the International Scientific Committee for ISBS '97:

- Jerry D. Wilkerson (USA)
- Aniko Barabas (Hungary)
- Eugene Brown (USA)
- Barbara Gowitzke (Canada)
- Hans Gros (Germany)
- Stuart Miller (UK)
- Larry Noble (USA)
- Julie Steele (Australia)
- Frantisek Vaverka (Czech Republic)
- Wayne Zimmermann (USA)

The following individuals form the Local Executive Committee for ISBS '97 who are working tirelessly to make the conference happen!

- Jerry D. Wilkerson
- Monique Butcher
- Sue Chinworth
- Karen L. Denny
- Dana M. Drewlinger
- C. Roger James
- Kathy Ludwig
- Harry J. Meeuwssen
- Wayne Zimmermann

A registration form for the conference is attached at the end of this Newsletter. For more information contact:

ISBS Conference
Texas Woman's University
Office of Continuing Education
PO Box 425649
Denton, TX 76204-5649
FAX: +1 (817) 898-3408
E-mail: F_WILKERSON@VENUS.TWU.EDU
S_FERGUSON@VENUS.TWU.EDU

OR visit the Symposium home page at:

<http://www.ttu.edu/~hper/isbs/isbs.htm>

We look forward to seeing you in Denton, Texas!

How NOT to Give an Oral Presentation

With the impending ISBS '97 Symposium to be held in Denton, Texas, the following "tips" have been included to help you in preparing your oral presentations.

Presenting data at a conference? Preparing a seminar or lecture? Then you need the Immunology News "Guidelines For Giving a Truly Terrible Talk." Strict adherence to the following time-tested guidelines will ensure that both you and your work remain obscure and will guarantee an audience of minimum size at your next talk.

SLIDES AND OVERHEADS

1. Use lots of slides and overheads. A rule of thumb is one for each 10 seconds of time allotted for your talk. If you don't have enough, borrow the rest from the previous speaker, or cycle back and forth between slides and overheads.
2. Put as much information on each slide and overhead as possible. Graphs with a dozen or so crossing lines, tables with at least 100 entries, and maps with 20 or 30 units are especially effective; but equations, particularly if they contain at least 15 terms and 20 variables, are almost as good. A high density of detailed and marginally relevant data usually preempts penetrating questions from the audience.
3. Use small print. Anyone who has not had the foresight to either sit in the front row or bring a set of binoculars is probably not smart enough to understand your talk anyway.
4. Use figures and tables directly from publications. They will help you accomplish goals 2 and 3 above and minimise the amount of preparation for the talk. If you haven't published the work, use illustrations from an old publication. Only a few people in the audience will notice anyway.
5. Make sure at least one slide and overhead is upside down or sideways. This relieves tension in the room.

PRESENTATION

1. Don't organise your talk in advance. It is usually best not even to think about it until your name has been announced by the session chair. Above all, don't write the talk out, for it may fall into enemy hands.

[Editor's Note: Actually, if you want to give a *truly memorable* presentation, WRITE OUT THE ENTIRE TALK word for word -- and read from the script in as close to a monotone voice as you manage. This method is especially effective right after lunch.]
2. Never, ever, rehearse, even briefly. Talks are best when they are given spontaneously with thoughts organised in a random fashion. Leave it as an exercise for the listener to assemble your thoughts properly and make some sense out of what you say.
3. Discuss each slide and overhead in complete detail, especially those parts irrelevant to the main points of your talk. If you suspect that there is anyone in the audience who is not asleep, return to a previous slide and discuss it again.
4. Face the projection screen, mumble, and talk as fast as possible, especially while making important points. An alternate strategy is to speak very slowly, leave every other sentence incomplete, and punctuate each thought with "ahhh," "uhhh," or something equally informative.
5. Wave the light pointer around the room, or at least move the beam rapidly about the slide image in small circles. If this is done properly, it will make 50% of the people in the front three rows (and those with binoculars) sick.
6. Use up all of your allotted time and at least half, if not all, of the next speaker's. This avoids foolish and annoying questions and forces the chairman to cut short the following speaker's time. Remember, the rest of the speakers don't have anything important to say anyway. If they had, they would have been assigned times earlier than yours.

Thanks must go to Will Hopkins, and the Sportscience Research Resources Page of the Sportsci Web Site for these "informative" points. For more serious (and equally amusing) information, you can visit the site at:

<http://www.sportsci.org>

Topics of relevance for those preparing their presentations include "How to Give Talks", "How to Use PowerPoint", "Create and Effective Poster". A site well worth visiting.

News: ISBS Board of Directors Meetings

The next ISBS Board of Directors Meetings will be held in conjunction with the XV ISBS Symposium to be held in Denton, Texas. The tentative schedule for the Board Meetings is:

Date	Time	Meeting
Fri June 20	4.00 pm	Board Meeting
Sun June 22	2.00 pm	General Meeting
Wed June 25	11.30 am	Post-Conference Meeting

For further details of these meetings please contact Jerry Wilkerson on :
F_WILKERSON@venus.twu.edu



ISBS 1996 PROCEEDINGS

ORDER FORM



Name: _____

Address: _____

Country: _____ Phone: _____ Fax: _____

Enclose the amount of PTE 5,000\$00 (including postal taxes), payable by cheque/money order to:

Faculdade de Motricidade Humana
Serviço de Edições
Estrada da Costa - Cruz Quebrada
1499 Lisboa Codex
PORTUGAL

ISBS Membership Application Form

Membership in ISBS shall be open to any and all persons regardless of geographic origin, who demonstrate a desire to study sport from a biomechanical viewpoint. These persons must be workers in biomechanics and/or sports (coaches, trainers, teachers) or they must demonstrate a strong interest in the area of biomechanics in sports.

How to Join

ISBS membership for 1997 can now be renewed by paying the current dues. Because of an increase in rates for the Journal of Applied Biomechanics (JAB), a one year professional membership (January 1-December 31, 1997) will be \$59.00.

Professional Membership: Subscription to JAB is a requirement of membership; if you receive JAB through another association, (please provide documentation) dues will remain \$20.00.

Student Membership: Subscription to JAB is not a requirement. Student members may receive a special subscription rate by writing to : Human Kinetics Publisher, Circulation Department, Box 5076, Champaign, IL 61825-5076.

Payment **MUST BE** in US funds. If you are outside the USA, please use a check written on a bank in the USA, an international postal money order, or international traveller's check.

Please complete the application below and mail to:

Dr. Cynthia Tant
 Department of Health, Leisure and Sport
 University of West Florida
 11000 University Pkwy
 Penscola FL 32514 USA
 Phone: +1-904-474 2599
 FAX: +1-904-474 3342
 Email: ctant@uwf.edu

 Name: _____

Degree: _____ Title: _____

Address: _____

Institution: _____

Department: _____

Street: _____

City: _____

State/Province _____ Zip: _____

Country: _____ Phone: _____

Fax: _____ E-mail: _____

Professional (includes JAB subscription) »»»»»»»»»»»»»»»» \$59.00/year _____
 Professional (receiving JAB, confirmation)»»»»»»»»»»»»»»»» \$20.00/year _____
 Student (dues only, no JAB required)»»»»»»»»»»»»»»»» \$10.00/year _____

ISBS REGISTRATION - 1997

Texas Woman's University Denton, Texas, USA



Please PRINT or TYPE ONLY

Name: _____
Surname (Last) First Middle Initial Nickname

Name: _____
as it should appear on your nametag (First Last)

Social Security Number: _____ Job Title: _____

Institution: _____

Address 1: _____ Address 2: _____

City: _____ Region: _____

State: _____ Zip: _____ Country: _____

Daytime Telephone: _____ Fax: _____ E-Mail: _____

ISBS MEMBERSHIP \$20**REGISTRATION FEES**
(In U.S. Dollars)

ISBS members

(Before May 1)

 \$195.00

(After May 1)

 \$225.00

Non members

 \$215.00 \$245.00

Students*

 \$ 95.00 \$115.00

Accompanying person

 \$175.00 \$195.00Attending ISBS and Teaching
Conferences** \$345.00 \$375.00

*Students: Must be registered in an undergraduate or graduate program during 1997. Please attach a copy of an identification card to the registration form.

**If attending both conferences, please fill out both registration forms. Please indicate meal packages, university housing, and special activities for both conferences.

MEAL PACKAGES**Amount**

Option #1

 \$48

Option #2

 \$70**UNIVERSITY HOUSING****Amount**

Double Occupancy

 \$13 per person /per night

Single Occupancy

 \$18 per person /per night**Gender** Male Female

Roommate Preference (must list each other)

SPECIAL ACTIVITIES

Texas Lil's

 \$65 per person _____ number of
tickets needed

check-in date: _____

departure date: _____

TOTAL _____**PAYMENT**

Make checks payable to Texas Woman's University or if you would like to use your VISA or Mastercard to pay fees, please provide the following information:

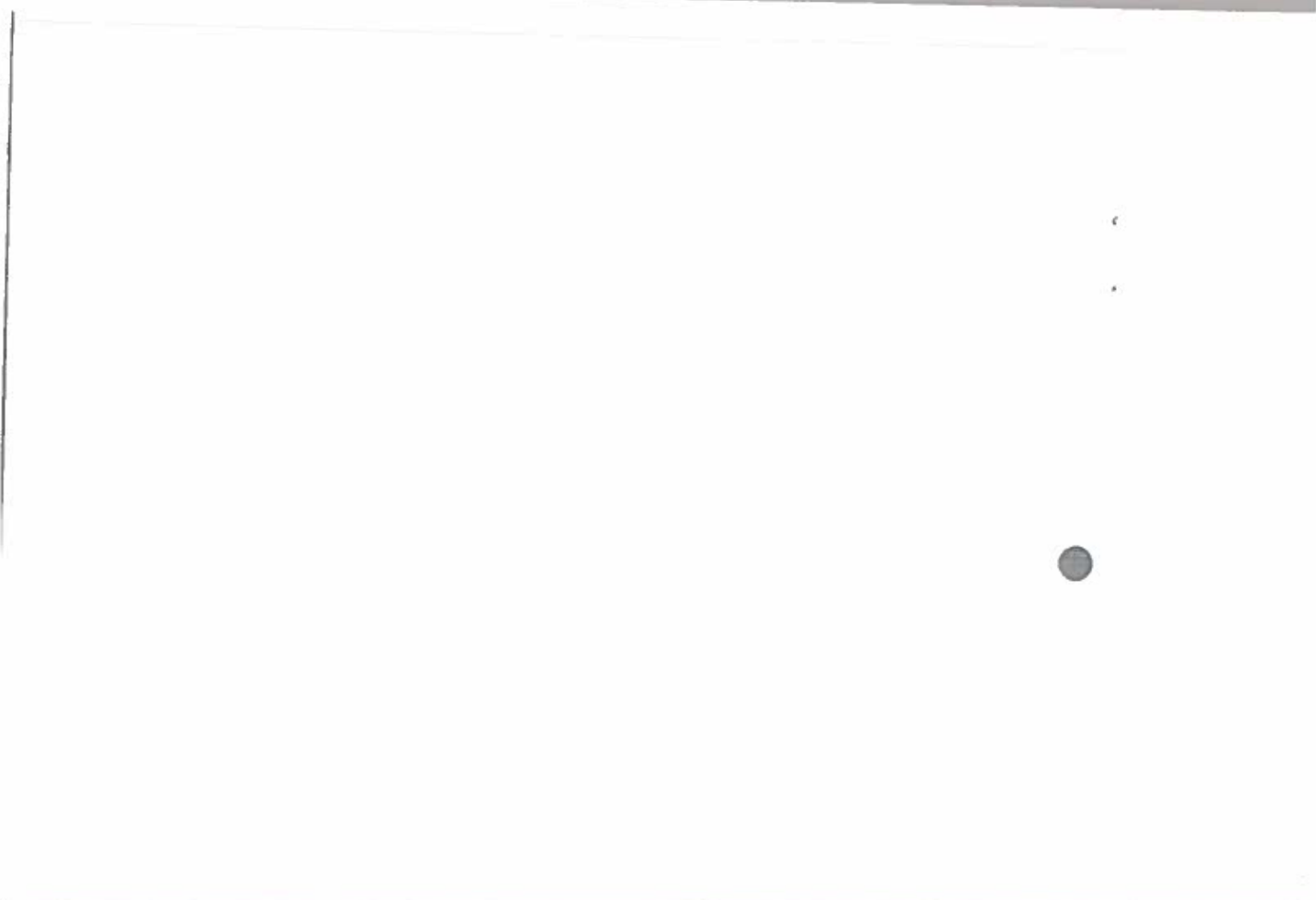
Card Number _____

Expiration Date _____ Signature _____

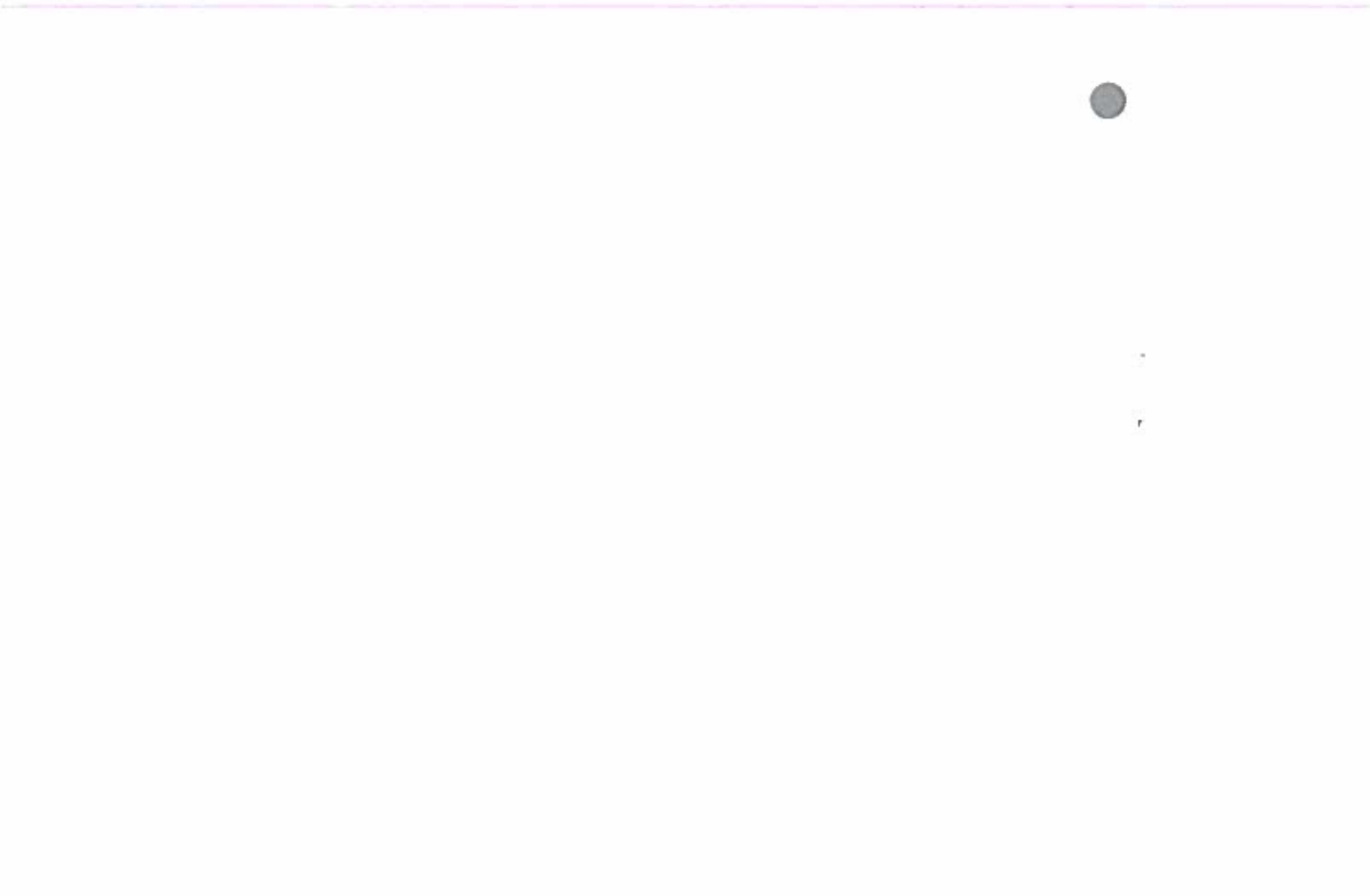
Return completed form and payment to:

Office of Continuing Education
Texas Woman's University
PO Box 425649
Denton, TX 76204-5649**Questions?**Phone: (817) 898-3408 Fax: (817) 898-3416
E-mail: S_Ferguson @ venus.twu.edu

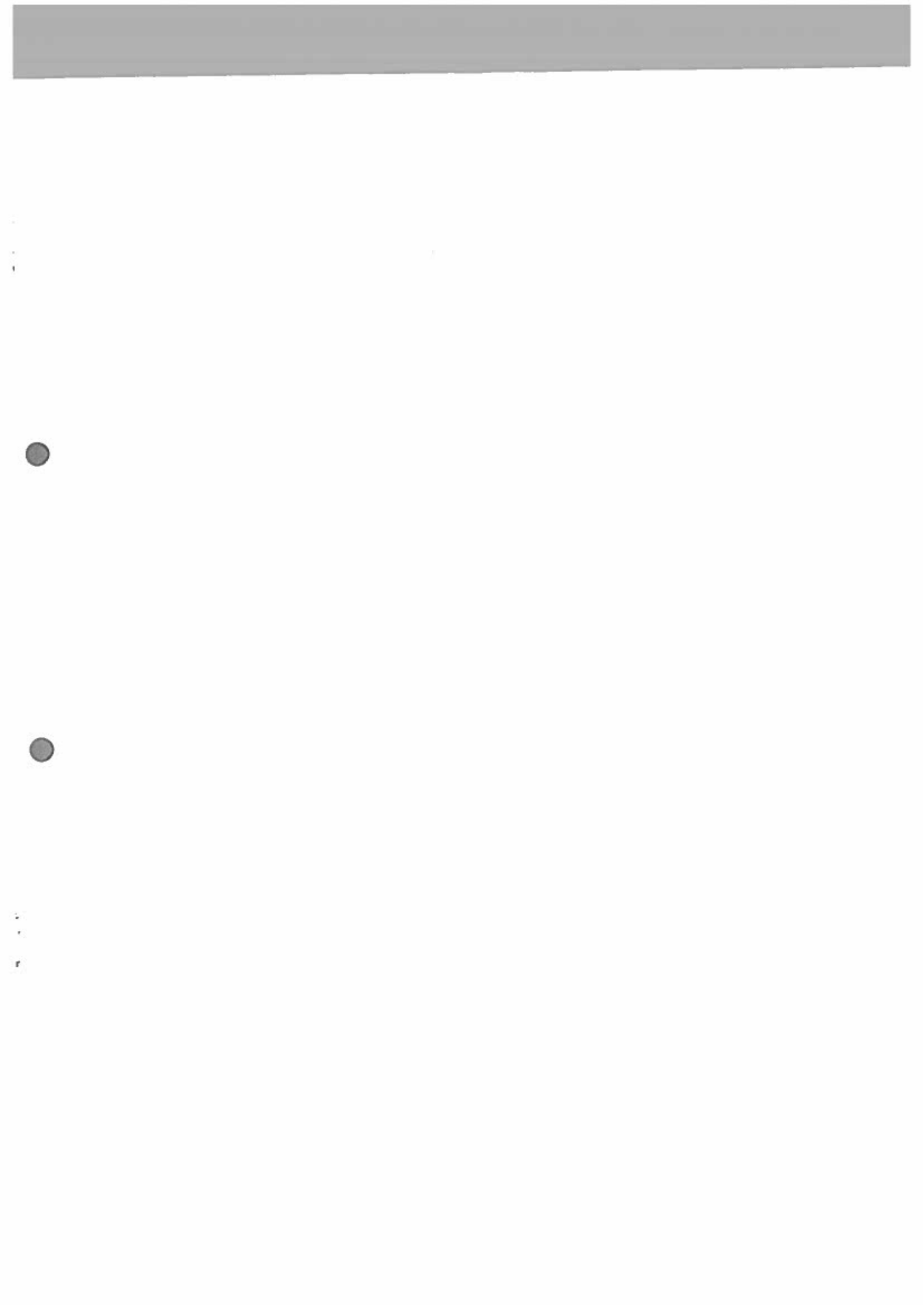
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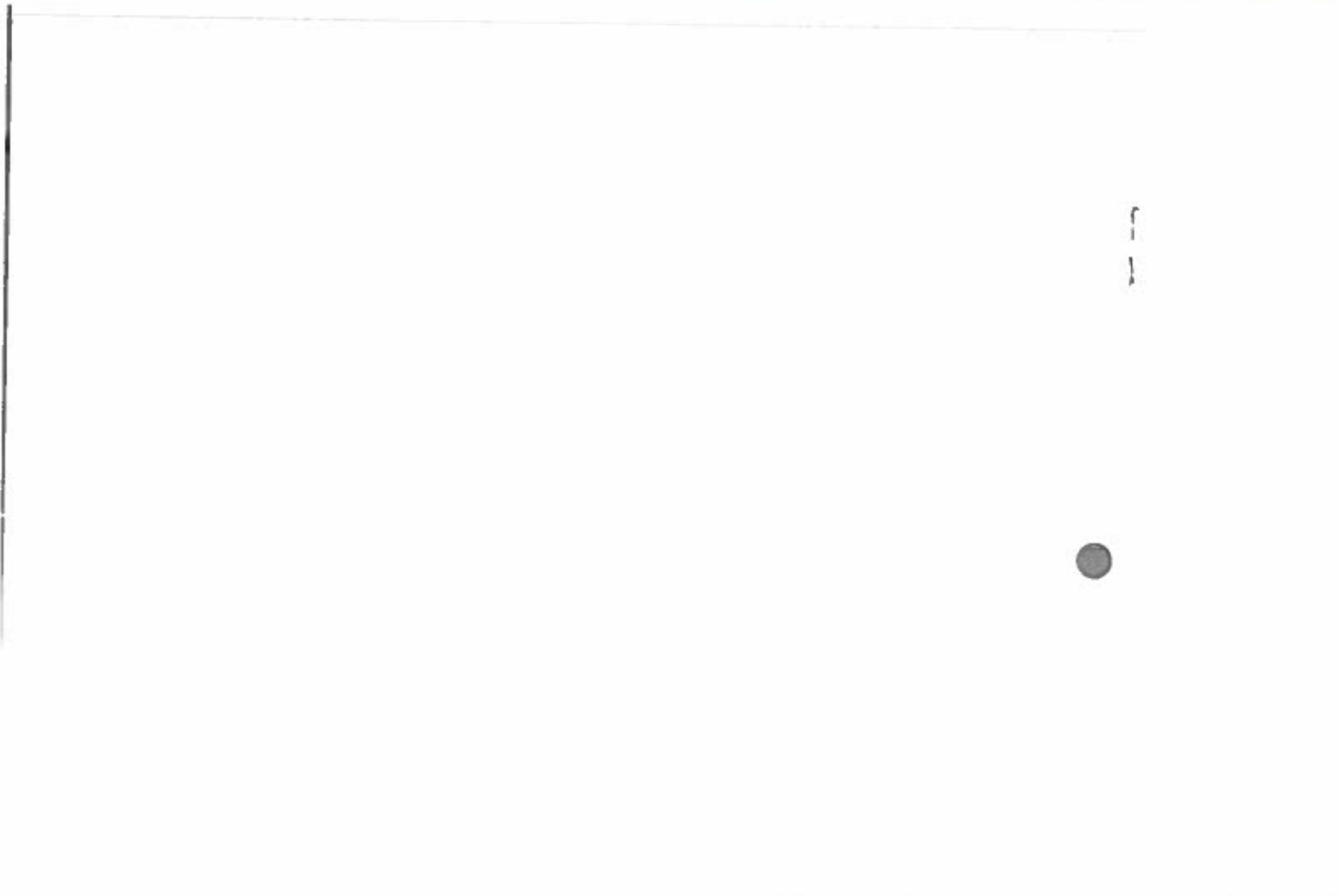


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