

The 2nd International SportSURF Conference



Science, Technology and Research into Sport Surfaces (STARSS 2)

Key Themes: 'Injury Risk' and 'Surface Performance'

Date: 21st & 22nd April 2010

Venue: Loughborough University, UK

FOR REGISTRATION: PLEASE GO TO THE SPORTSURF HOMEPAGE AND FOLLOW THE LINKS.



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SportSURF



Hosted in association with the
Loughborough Sports Technology Institute

<http://sportsurf.lboro.ac.uk>

(V5.0 24-01-2010)

STARSS CONFERENCE: 21st & 22nd April 2010

INTRODUCTION

This is the second (unique) conference for those interested and involved in sport surface interactions and sport surfaces research and practice. It is borne out of the successful 'SportSURF' network, bringing together many academic disciplines and industrial parties to discuss and formulate research needs for sport surfaces and their interactions for the future.

The conference provides an opportunity for the discussion of current research ideas and project findings, dissemination of current practice and issues, and the transfer of technology and ideas between attendees from the academic and industrial communities in the UK, Europe and from around the world.

The specific objectives are:

- To establish the 'STARSS' conference as a valuable addition to the sport science calendar.
 - To further promote the SportSURF network as an ongoing and growing international community of sport surface researchers and practitioners.
 - To disseminate current high quality research from around the world.
 - To provide an opportunity for networking, and encourage young researchers to present their research and meet established researchers in this interdisciplinary field.
 - To identify coherent research needs for the future benefit of the sport surface related community.
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WHO SHOULD ATTEND?

The conference is aimed at those involved in all aspects of sports surfaces including: academic research in engineering, materials, sport and exercise science, sport medicine; industrial research; facility design & procurement; construction, management/operation and funding; sport governance; accredited surface testing; standardisation; and player/athlete coaching and welfare including psychology.

CONFERENCE PROGRAMME AND TOPICS

The conference will be run over two days with a conference dinner at the National Space Centre in Leicester on the first evening.

Presentations will be given on a broad range of topics by invited keynote speakers and free paper authors, including leading practitioners & researchers. There will be a balance between science and application aimed at stimulating questions and debate between researchers and practitioners.

Invited Keynotes on 'Sport Injury Monitoring', 'Surface Influences on injury' & 'Developments in Natural Turf' (see below for more details).

Presentations will include a paper which will be distributed to all delegates electronically, either on a CD or Flash drive.

NOTE: There is opportunity for poster presentations and limited space for exhibitions (first come basis). If you are interesting in presenting/exhibiting your research please feel free to contact us at sportsurf@lboro.ac.uk for further information.

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STARSS CONFERENCE: 21st & 22nd April 2010

CONFERENCE PROGRAMME - DAY 1 21ST APRIL 2010

Time	
09:00 - 09:20	Registration - Tea/Coffee
09:20 - 9:30	Welcome Talk - Dr Paul Fleming (Network Manager, Conference Chair)
09:30 - 10:30	Keynote 1 - Iain James, Cranfield University "Advancing Natural Turf to meet Tomorrow's Challenges"
10:30 - 11:00	Coffee Break
11:00 - 12:20	<u>Presentations on Natural Turf Systems (Free Papers)</u> Surface Stability - reinforcement & measurement - Thomas Serensits (Penn State, USA) Oxygen diffusion through cricket pitch - Simon Parsons (Cranfield, UK) Quantifying cricket outfields - Louis Chinnery & Francis Lopez (UWI, Barbados) New dynamic strength test method for natural turf - Matt Caple (Cranfield, UK)
12:20 - 13:30	Lunch & Poster Displays and Exhibition Posters include: Equine surfaces, Tennis court hardness, Sustainable drainage systems, Novel measurement technologies, Surface friction measurement....
13:30 - 15:10/30	<u>Presentations on Synthetic Turf Systems (Free Papers)</u> Synthetic Turf Standards for AFL & Cricket - Dara Twomey (Ballarat, Australia) Predicting durability/playability from fibre resilience - Gustaaf Schoukens (ERCAT, Belgium) Maintenance best practice and recent research - Paul Fleming (Loughborough, UK) Yarn and infill - design and behaviour - Enrique Torres (Dow, Belgium) Surface effects on hockey ball bounce behaviour - Rudy Verhelst (Ghent, Belgium)
15:10 - 15:30	Coffee Break
15:30 - 16:30	<u>Presentations on Environment and Durability - (Free Papers)</u> Human Health issues on Synthetic Turf - Thomas Serensits (Penn State, USA) Atmospheric CO ₂ - modelling and management - Mark Bartlett (Cranfield, UK) Developments in Technology - Synthetic Turf Carpets (tbc)
16:30-17:15	Industry/IGB Focussed Session / Discussion
17:15 - 18:15	Free Time (Approximate)
18:15 - Late	Conference Meal and Entertainment - National Space Centre, Leicester Bus Transport from Conference Venue (pickup at local Hotels tbc)

Please note: The programme/titles are subject to change

STARSS CONFERENCE: 21st & 22nd April 2010

CONFERENCE PROGRAMME - DAY 2 22ND APRIL 2010

Time	
09:15 - 10:00	Keynote 2 - Evert Verhagen, EMGO Institute, VU University, Holland "A Framework for Sport Injury Surveillance and Prevention"
10:00 - 11:00	<u>Presentations on Injury & Risk (Free Papers)</u> Netball injury risks due to surface effects - Sandy Walker (Adelaide, Australia) Ballet dance floors, perception and injury risk - Luke Hopper (Perth, Australia) Effect on player loading on synthetic turf support systems - Dan Low (Exeter, UK)
11:00 - 11:30	Coffee Break
11:30 - 12:30/50	<u>Presentations on Player- Surface Interaction (Free Papers)</u> New biofidelic rotational traction apparatus - design and findings - Eric Meyer (Dublin, Ireland) Traction of surfaces and boot stud configurations - James Clarke (Sheffield, UK) A framework for understanding surface traction - Kathryn Severn (Loughborough, UK) Measurement and perception of soccer shoe comfort - James Clarke (Sheffield, UK)
12:30/50 - 13:30	Lunch Poster Displays and Exhibition
13:30 - 14:30	Keynote 3 - Dara Twomey, University of Ballarat, Australia "PAFIX case study - Surface Properties versus Injury Risk in Australian Rules Football"
14:30 - 15:30	<u>Presentations (Free Papers)</u> Using biomechanical data to develop mechanical test devices - Thomas Grund (TUM, Germany) Incorporating 'In-game' scenarios into player-surface studies - Rene El-Kati (Loughborough, UK) Synthetic turf system behaviour - what don't we know? - Paul Fleming (Loughborough, UK)
15:30 - 16:00	Coffee Break
16:00 - 17:00	Discussion Session - Implementation and Future Directions for Research
17:00	Closing Remarks - Dr Paul Fleming (Conference Chair)

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Keynote Presenters

1. Dr Iain James, Cranfield University - Sport Surfaces Research Group.

Dr Iain James is Head of the Centre for Sports Surface Technology at Cranfield University, which aims to advance the engineering and management of natural and synthetic sports surfaces. He is a Chartered Scientist and a member of the International Sports Engineering Association, the International Turfgrass Society, and is on the Council of the Institute of Professional Soil Scientists. His presentation and paper will provide an overview and update of the latest developments in natural turf practice and research.

2. Dr Evert Verhagen, EMGO Institute at the VU University, Holland.

Dr Evert Verhagen is a senior researcher at the department of Public and Occupational Health of the EMGO Institute at the VU University Medical Centre in Amsterdam. He leads a group who conduct research in the area of sports injury surveillance and prevention (children and adults). He is a board certified epidemiologist and human movement scientist. His talk will cover aspects of current thinking and techniques in monitoring and preventing sports injuries.

3. Dr Dara Twomey, School of Human Movement & Sport Sciences, University of Ballarat, Australia. Dr Dara Twomey is a Senior Research fellow at Ballarat, manager of their injury prevention projects and leader of their 'Player Surface Interaction' research team. She had a lead role in the development of standards for the use of artificial surfaces for Australian football and cricket recently completed, and in the large study 'Preventing Australian Football Injuries with Exercise (PAFIX) Study'. Her talk will cover aspects of the PAFIX study in relation to design of the injury monitoring and the assessment of the surfaces, and the findings of correlations between surface properties and injury risk.

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CONFERENCE FEE FOR MEMBERS : £275 BEFORE THE EARLY REG DEADLINE OF 28TH FEBRUARY (CONFERENCE ROOM RATES AT BURLEIGH COURT £65-93)

VENUE DETAILS

The venue for both days will be the **Sir Denis Rooke Building**, Holywell Science Park at Loughborough University. The venue offers high quality specialist conference facilities and will include a lunch along with all-day refreshments and snacks. The conference accommodation at Burleigh Court is only a short walk from the main venue. For conference dinner buses will transfer delegates to and from the dinner venue (approximately 9 miles away).

For venue details see: www.wlecometomago.com/conference-venues/holywell-park/



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