

The Inaugural SportSURF Conference



Science, Technology and Research into Sport Surfaces (STARSS)

Date:

17th & 18th September 2007

Venue:

Loughborough University, UK

Registration Form and Delegate Information



Hosted in association with the
Loughborough Sports Technology Institute



www.sportSURF.org

(V5.0 05/08/07)

STARSS CONFERENCE: 17th & 18th September 2007

INTRODUCTION

This is the first of a new biennial conference for those interested and involved in sport surfaces. Its inception 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 of the future. The conference aims to provide a unique opportunity for the discussion of current research ideas and findings, dissemination of current practice and the transfer of technology and ideas between attendees from the academic and industrial communities.

The specific objectives are:

- To establish the 'STARSS' conference as an enjoyable and valuable addition to the sport technology calendar.
- To further establish the SportSURF network as an international community of sport surface researchers and practitioners.
- To disseminate current high quality research from around the world.
- To provide an opportunity to all attendees for networking, and encourage young researchers to present their research.
- To identify coherent research needs for the future benefit of the sport surface community.

WHO SHOULD ATTEND?

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

CONFERENCE PROGRAMME AND TOPICS

The conference will be run over two days with a dinner on the first evening. The conference will balance the presentations between science and application and stimulate questions and debate between researchers and practitioners. Presentations will be given, by the paper authors, on a broad range of topics including (but not exclusively):

- Player-surface interaction
- Ball-surface interaction
- User perceptions
- Design and construction - innovations
- Biomechanics - modelling, instrumentation
- Laboratory and field testing - interpretation, innovation, spatial and temporal studies
- Environmental impact - sustainability, value engineering
- Durability - mechanical wear, measurement, environmental issues, maintenance

KEYNOTE PRESENTATIONS

Dr Martyn Shorten (Biomechanica) - Sports Surface and Injury: The Missing Link, and Dr Colin Walker (University of Strathclyde) - Computational Modelling of Athlete Surface Interactions. Additional presentations will be given from leading practitioners, researchers and policy makers from around the world.

STARSS CONFERENCE: 17th & 18th September 2007

CONFERENCE PROGRAMME - DAY 1 17TH SEPTEMBER 2007

| Time | |
|---------------|---|
| 09:00 - 09:30 | Registration - Tea/Coffee |
| 09:30 - 9:45 | Welcome Talk - Dr Paul Fleming (Network Manager) Welcome to Loughborough, SportSURF Background and Conference Information |
| 09:45 - 10:45 | Keynote Presentation 1 - Dr M Shorten (Biomechanica) Sports Surfaces and Injury: The Missing Links |
| 10:45 - 11:15 | Coffee Break |
| 11:15 - 12:15 | Session 1 - Biomechanics <i>Dr V Stiles:</i> Biomechanical Response to Variations in Natural Turf Surfaces During Running and Turning <i>Dr K Meijer:</i> The Influences of Soccer Pitch Stiffness on Biomechanical Loading of the Lower Limb <i>Mr R Kirk:</i> Relevance of Mechanical Tests to the Traction of Studded Footwear on Surfaces |
| 12:15 - 13:15 | Lunch Poster Displays and Exhibition |
| 13:15 - 15:05 | Session 2 - Maintenance and Environment Invited Speaker: Mike Abbott (SAPCA) - The Importance of Maintenance <i>Mr A McLeod:</i> The Effect of Particulate Contamination on the Infiltration Rates of Synthetic Turf Surfaces <i>Mr D Rosa:</i> Study on the Effect of Maintenance Operations and Season on the Traction of Natural Grass Pitches <i>Mr A Walker:</i> Grass is Not Always Greener: The Application of Life Cycle Assessment to Natural and Artificial Turf Sports Surfaces <i>Dr M Bartlett:</i> Engineering soil profiles to reduce earthworm populations |
| 15:05 - 15:30 | Coffee Break |
| 15:30 - 16:40 | Session 3 - Test Methods Invited Speaker: Alastair Cox (Labosport UK) - Current and New Test Methods <i>Mr R Verhelst:</i> Development of a Setup for the Study of Ball Roll Behaviour in Soccer on Artificial Turf <i>Dr C Young:</i> A Review of Mechanical Impact Testing Devices for Sport Surfaces |
| 16:40 - 18:00 | Special Session: 'Policy Makers Have Their Say...' A special session with short presentations from key policy makers including Steve Williams (The FA), Simon Winman (RFU), Jean-Claude LeClef (FIH), Ben Woods (Sport England) tbc, and Geoff Webb (IOG). |
| 18:00 - 19:00 | Free Time |
| 19:00 - Late | Evening Meal Including guest speaker (TBC) and entertainment |

Please note: the programme is subject to change

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STARSS CONFERENCE: 17th & 18th September 2007

CONFERENCE PROGRAMME - DAY 2 18TH SEPTEMBER 2007

| Time | |
|---------------|--|
| 09:30 - 10:30 | Keynote Presentation 2 - Dr C Walker Computational Modelling of Athlete-Surface Interactions |
| 10:30 - 11:30 | Session 4: Measurements and Modelling <i>Mr Hans Cappon:</i> Multiturf: Innovation in Multifunctional Artificial Turf Fields for Sports <i>Prof. M Gilchrist:</i> Racetrack Turf Impact Measurements for Jockey Head Injury Risk Analysis <i>Mr E O'Donnel:</i> Using the Lightweight Deflectometer to Evaluate Sport Surfaces |
| 11:30 - 12:00 | Coffee Break |
| 12:00 - 13:00 | Session 4: Measurements and Modelling (cont.) <i>Ms K Severn:</i> Temporal and Spatial Investigations on Water Based Hockey Fields <i>Prof. P Strying:</i> Reduction of Friction on Artificial Ski Surfaces: Athlete-surfaces Interactions <i>Mr A Davidson:</i> Design, Manufacture and Performance of an In-situ Artificial Sports Surface Shockpad Tester |
| 13:00 - 14:00 | Lunch Poster Displays and Exhibition |
| 14:00 - 14:15 | Loughborough's new Sport Technology Institute (STI) Invited Speaker: Prof. Mike Caine - STI Director |
| 14:15 - 16:15 | Session 5: Yarns and Carpet Invited Speaker: Peter Van Reyden (Desso Ltd) <i>Mr R Verhelst:</i> The Sliding Tester: A New Device for Artificial Turf <i>Mr S Rambour:</i> A New Method to Test the Resilience of a Yarn for Application in Artificial Turf <i>Mr D Rosa:</i> Reference Model for the Development of the Artificial Grass as a Surface for Golf Practice Invited Speaker: René Koerhuis (TenCate Thiolon) |
| 16:15 - 16:45 | Coffee Break |
| 16:45 - 17:00 | Closing Remarks - Dr P Fleming Conference Summary - Research Knowledge and Gaps |

Please note: the programme is subject to change

There is still 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 c.young@sportsurf.org for further information.

STARSS CONFERENCE: 17th & 18th September 2007

REGISTRATION FORM

| | | | | | | | | | | |
|--------------|----------------------|----------------------|-----|----------------------|----|----------------------|----|----------------------|-------|----------------------|
| Title | Mr | <input type="text"/> | Mrs | <input type="text"/> | Ms | <input type="text"/> | Dr | <input type="text"/> | Prof. | <input type="text"/> |
| Surname | <input type="text"/> | | | | | | | | | |
| First Name | <input type="text"/> | | | | | | | | | |
| Organisation | <input type="text"/> | | | | | | | | | |
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| Telephone | <input type="text"/> | | | | | | | | | |
| Fax | <input type="text"/> | | | | | | | | | |
| E-Mail | <input type="text"/> | | | | | | | | | |
| Signature | <input type="text"/> | | | | | | | | | |
| Date | <input type="text"/> | | | | | | | | | |

FEE

The registration fee includes 2 day attendance, all day refreshments, hot lunch, a 3 course evening dinner on the 17th (on campus near the venue) and a CD of the proceedings containing all papers and posters given at the conference.

Please select the appropriate fee:

| | | |
|---|----------|----------------------|
| Early registration (before 31 st August 2007) SportSURF member | £ 175.00 | <input type="text"/> |
| Early registration (before 31 st August 2007) Non-member | £ 225.00 | <input type="text"/> |
| Student registration (before 31 st August 2007) | £ 150.00 | <input type="text"/> |
| Registration after 1 st September | £ 250.00 | <input type="text"/> |

Any persons/organisations wanting to exhibit their company/products should contact c.young@sportsurf.org for details.

PAYMENT METHOD

I enclose a cheque for £

Please debit £ to my Switch*/ Delta / Visa / MasterCard (delete as appropriate):

Card Number

Issue Number (*Switch Only)

Card Start Date /

Card End Date /

Card Security Code (the last 3 digits printed on the card signature strip)

Card Holders Name and Address if different from above:

| | | |
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| <input type="text"/> | ZIP/Post Code | <input type="text"/> |
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Confirmation of your registration for the conference will be sent directly via e-mail (or via post where no e-mail is given)

Please note: Fees are payable in advance and places will only be reserved when payment, together with registration forms, have been received. Cheques are to be made payable to "Loughborough University" and sent with the booking form to:

Dr Colin Young (SportSURF Network Coordinator), Department of Civil & Building Engineering, Loughborough University Ashby Road, Loughborough, Leicestershire, LE11 3TU, UK.

Tel: +44 (0)1509 263171 ext 4133, Fax +44 (0)1509 223981, email: c.young@sportsurf.org.

For bookings cancelled within 30 days of the conference, the fee is non-refundable, although substitutions are permitted.

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STARSS CONFERENCE: 17th & 18th September 2007

KEYNOTE PRESENTATIONS

Two keynote presenters will set the scene on current knowledge:

- **Dr Martyn Shorten – Biomechanica**

Title: ***The missing links: Sports Surface Properties, Injury and Performance***

Dr Shorten received his Ph.D. from Loughborough University, UK, in 1984. Before starting his Research and Development business (Biomechanica) in 1992, he was employed as Director of the NIKE Sport Research Laboratory and as Director of Research Design and Product Development for PUMA AG. Dr Shorten has been an active member of the International Society of Biomechanics since 1983 and in 1993, he established the ISB's Technical Section on Footwear Biomechanics. He is Chairman of ASTM Committee F08 and is active in developing standards for footwear, artificial turf and playground surfacing (Bio taken from www.biomechanica.com).

- **Dr Colin Walker – University of Strathclyde**

Title: ***Modelling of Sports Surfaces***

Dr Walker is a Reader of Mechanical Engineering at the University of Strathclyde, with many years experience of sports surface research. His main area of research is the experimental and modelling investigation of heel-toe running, aimed at the design of running shoes and sports surfaces with properties that will reduce the likelihood of injury from overload. This work has resulted in improved methods of surface testing for sport surfaces, and new insights into the mechanics of running.

VENUE DETAILS

The venue for both days will be the **Sir Denis Rooke Building (number 4 on map below)**, Holywell Science Park at Loughborough University. The venue offers high quality specialist conference facilities and will include a hot buffet lunch along with all-day refreshments and snacks. The evening dinner will be at Burleigh Court which is a short walk from the main venue.

DIRECTIONS

By Car

From the North/South/West use junction 23 of the M1, head toward Loughborough on the A512 and turn right after 1 mile at the roundabout toward Holywell Science Park, visitor parking is on the left after the security barrier. From the East travel around Loughborough on the ring road, following to signs for the M1, and go past the University Campus (on your left) and turn left at the roundabout toward Holywell Science Park, visitor parking is on the left after the security barrier

By Rail

Regular Intercity services operate between Loughborough and other main line towns -including over 40 trains daily to and from London St Pancras 90 minutes away. Once at Loughborough's railway station you are just ten minutes away from the campus. From here there is a regular bus service which operates every ten minutes during term time. Taxis are normally available from the station and the journey should cost around £5 - £6. For information on train times and ticket prices phone Rail track on 0345 484950.

By Air:

Nottingham East Midlands Airport is only 20 - 25 minutes from Loughborough University and many budget air liners operate from there including www.ryanair.com and www.easyjet.com. Taxi fare from the airport to the university campus is normally in the region of £15 - £20.

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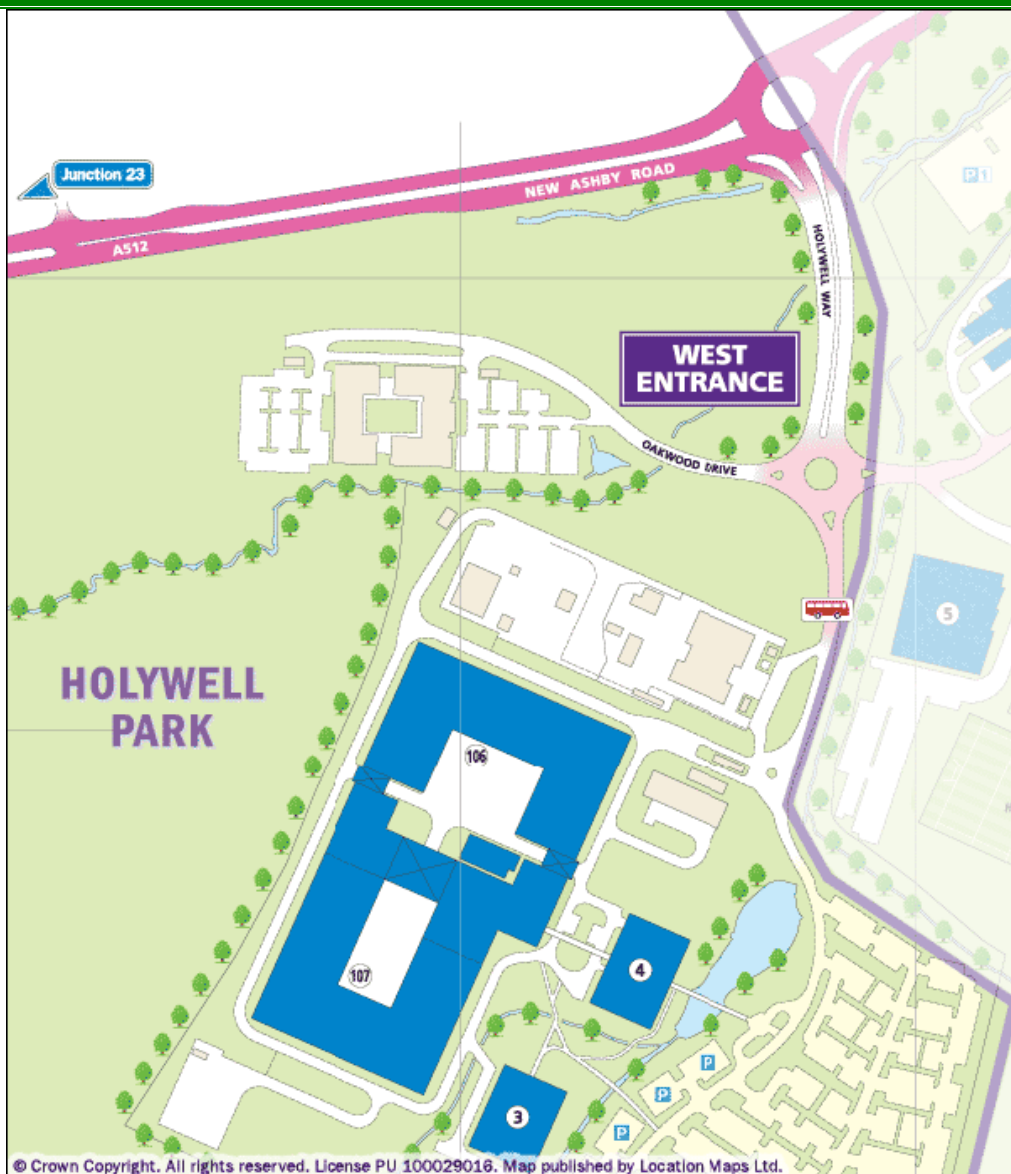
STARSS CONFERENCE: 17th & 18th September 2007

ACCOMMODATION

Burleigh Court offers accommodation a short walking distance from the conference venue at Holywell Park, we have limited rooms reserved at a discounted rate for conference attendees at £ 63.50 inc VAT. To book a room please call +44 (0)1509 228104, or email beds@welcometoimago.com and remember to quote reference number **'45808'** for the reduced rate.

Alternatively the Quality Inn is a short walking distance from the venue (<http://www.qualityhotelloughborough.co.uk>). There are many other hotels and guest houses available in Loughborough contact us at c.young@sportsurf.org for more information.

MAP OF THE VENUE



The Sir Denis Rooke Building is #4

www.sportSURF.org

CONTACT C.YOUNG@SPORTSURF.ORG FOR MORE INFORMATION