

## Sunday 1st August, 2004 cont.

### Session 3 Sports www.ESM2004.info

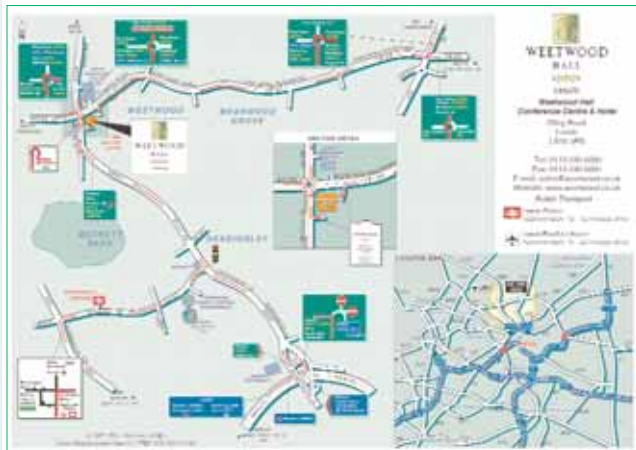
Chair: Mario LaFortune, Nike, Beaverton, Oregon, USA

- 13:30 - 14:15 **Keynote Lecture**, Pressure distribution measurement at the University Hospital Muenster: past, present and future uses  
*Dieter Rosenbaum, University Hospital Muenster, Germany*
- 14:15 - 14:30 Plantar pressures and foot geometry in athletes of different ethnicity  
*Uwe G. Kersting, Jason Gumei, Dieter Rosenbaum*
- 14:30 - 14:45 Temporal characteristic of foot rollover during barefoot jogging: Reference data for young adults  
*A. de Cock, Dirk De Clercq, Tine Willems, Erik Witvrouw*
- 14:45 - 15:00 Relationship between gait biomechanics and exercise-induced lower leg pain: a prospective study on risk factors  
*Tinne Willems, Erik Witvrouw, Anneloen De Cock, Dirk De Clercq*
- 15:00 - 15:15 Changes in plantar surface area under different loading conditions  
*Bill Vicenzino, Thomas G. McPoil, Mark W. Cornwall*
- 15:15 - 15:30 Application of centre of pressure to indicate rearfoot inversion-eversion in a simulated shoe shop setting  
*Sharon J. Dixon*
- 15:30 - 16:00 **Coffee break**

### Session 4 Pressure technology applications www.ESM2004.info

Chair: Scott Wearing, University of Queensland, Australia

- 16:00 - 16:15 Clinical proficiency of Dutch podiatrists, pedorthists and orthotists regarding plantar pressure reduction  
*Nick Guldemand, Pieter Leffers, Antal Sanders, Nicolaas Schaper, Geert Watenkamp*
- 16:15 - 16:30 Validity of the pedar mobile system of vertical force measurement during a long-term period  
*Henri L.P. Hurkmans, Johannes B.J. Bussmann, Ruud W. Selles, Herwin L.D. Horemans, Eric Benda, Henk J. Stam, Jan A.N. Verhaar*
- 16:30 - 16:45 Evaluation of a capacitive pressure sensor for joint contact stress measurements  
*Lorenzo Martinelli, Dieter Rosenbaum, Tommaso D'Alessio*
- 16:45 - 17:00 Publicity of pressure distribution  
*Iveta Spodrina, Marcis Kruminis, Aivars Veltra*
- 17:00 Closing remarks  
*Jim Woodburn, Peter Seltz*



Weetwood Hall

## Meeting Overview

### Thursday 29th July, 2004

Registration, buffet and wine reception, welcome address  
**novel** workshops

### Friday 30th July, 2004

Registration, Scientific Day 1  
Excursion to Thackray Medical Museum

### Saturday 31st July, 2004

Activity day: mountain biking, walking, or trail running in the Yorkshire Dales

### Sunday 1st August, 2004

Scientific Day 2  
Banquet  
**novel award** ceremony



University of Leeds

## Host

Academic Unit of Musculoskeletal Disease  
School of Medicine, University of Leeds,  
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## Venue

Weetwood Hall  
Otley Road, Leeds LS16 5PS  
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## Sponsor

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2004  
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emed scientific meeting  
2004

Program



Leeds, UK, Jul. 29- Aug. 1, 2004

Academic Unit of Musculoskeletal Disease  
School of Medicine, University of Leeds, Leeds, UK

for further details, please visit  
[www.ESM2004.info](http://www.ESM2004.info)

# ESM2004 Presentations

Thursday 29th July, 2004

Welcome to ESM2004

18:00 - 21:00	Registration
18:30 - 21:00	Buffet and Wine Reception(Piano: Hattnew Witnam) Welcome address : Jim Woodburn (Foot pressure distribution measurement in Leeds: work in progress in the field of rheumatology)
18:30 - 20:30	novel (GmbH) Workshops : Workshop I Hardware (emed recorder, pedar-x, pliance-x, sensors) Workshop II Software (Databases, Projects, Reports, Clinics, Diabetes software)

Friday 30th July, 2004

Session 1 Biomechanics I  
Chair: Dr Jim Woodburn, University of Leeds, UK

7:30 - 8:30	Registration
8:30 - 9:15	Keynote Lecture, a personal perspective on past, current and future use of foot pressure measurement <i>Professor Leslie Klenerman</i>
9:15 - 9:30	Using pressure distribution technology for evaluating foot function in toddlers <i>Ann Halleman, Dirk De Clercq, Aerts P</i>
9:30 - 9:45	Do ankle foot orthoses improve force and pressure distribution during standing in children with hemiplegia? <i>Adrienne Hunt, Tara O' Reilly, Marie Megy, Bronwyn Thomas</i>
9:45 - 10:00	Changes in foot geometry parameters in 30 infants during the first three years of independent walking <i>Kerstin Bosch, Dieter Rosenbaum</i>
10:00 - 10:15	Between-day reliability of repeated plantar pressure distribution measurements in a normal population <i>Dieter Rosenbaum, Uwe Kersting</i>
10:15 - 10:45	Coffee break

Session 2 Diabetes, Multiple Sclerosis and Rheumatoid Arthritis  
Chair: Dr Nick Guldemon, University Hospital Maastricht, The Netherlands

10:45 - 11:00	Synergistic effects of immuno-incompetence & plantar pressures on healing of neuropathic pedal ulcers treated by off-loading <i>David R. Sinacore, Michael J. Mueller, Mary K. Hastings, Jeffrey E. Johnson</i>
11:00 - 11:15	Risk of plantar ulceration to the surviving foot in the patients with diabetic neuropathy following trans-tibial amputation <i>Rajani V. Kanade, Patricia E. Price, Keith G. Harding, Robert W. van Deursen</i>
11:15 - 11:30	How are we walking in Georgia? Plantar pressure comparison in healthy and diabetic feet <i>Nana Ichitchinadze, Nugzar Pargalava, Tamar Kotaria, Tamar Tchitchinadze</i>
11:30 - 11:45	Loading pattern of the foot of patients with multiple sclerosis <i>Tatiana L. Tsvetkova, Igor D. Stollarov, Magomed A. Abdurahmanov, Viatcheslav V. Lebedev, Alexander G. Ilves</i>
11:45 - 12:00	Plantar sensitivity and pedobarographic patterns in patients with rheumatoid arthritis <i>A. Schmiegel, M. Meemeier, D. Rosenbaum</i>
12:00 - 12:15	Reproducibility of plantar pressure measurements in patients with chronic arthritis <i>Marika van der Leeden, Jos Dekker, Petra Siemonsma, Sandy Lek-Westerhof, Martijn Steultjens</i>
12:15 - 13:30	Lunch break

Session 3 novel awards Finalists I  
Chair: Dr Mark Cornwall, University of Northern Arizona, USA

13:30 - 13:55	The effect of pes cavus on foot pain and plantar pressure <i>Joshua Burns, Jack Crosbie, Robert Ouvrier, Adrienne Hunt</i>
13:55 - 14:20	Validity and reliability of plantar pressure measurements in the diabetic neuropathic foot: a comparison of three step-protocols <i>Sicco A. Bus, Anthony de Lange</i>
14:20 - 14:45	Testing the characteristics of replicas of stone age footwear discovered in the Oetz Italian alps <i>Petr Hlavacek, Lenka Ostravska, Vaclav Gresak, Antonin Blaha, Jaromir Vaculik</i>
14:45 - 15:15	Coffee break

Session 4 novel awards Finalists II  
Chair: Dr Phillip Helliwell, University of Leeds, UK

15:15 - 15:40	Gait Evaluation during Fracture Healing in Sheep <i>Petra Seebeck, Mark Thompson, Abdul Parwani, Hanna Schell, Georg N. Duda</i>
15:40 - 16:05	Forces acting in the forefoot during normal gait : a clinical application <i>Christian Wyss</i>
16:05 - 16:15	Final questions and closing remarks on the novel awards session <i>Chairpersons Cornwall and Helliwell</i>
16:15 - 16:30	Coffee break

Session 5 Posters

16:30 - 17:30	Dynamic pedography in patients with diabetic polyneuropathy after orthopaedics surgery of the lower extremity <i>Vasanthi A. Hansen T. Fritsch C, Mittlmeier T.</i>
	Biomechanical abnormalities in patients with high risk of foot ulcer or amputations <i>Tatiana L. Tsvetkova, Alexandra N. Kushnir, Vadim B. Bregovsky, Zinalda V. Kruchkova</i>
	Remote pressure distribution measurement data analysis and data collection: telemedicine project <i>Alexander M. Volkov, Peter Seitz, Tatiana L. Tsvetkova, Christoph Fritsch, Viatcheslav V. Lebedev</i>
	Prevention of plantar foot traumas in weight-lifting practice <i>Vello Macellari, Carlo Varala, Claudia Giacomozzi</i>
	Plantar orthoses: Towards a better design to improve their effectiveness in diabetic ulcer prevention <i>Claudia Giacomozzi, Emanuela D'Ambrogi, Luigi Uccioli, Vello Macellari</i>
	Changes of foot load and functional characteristics in the group of obese children during reduction of weight <i>Lenka Kostelnikova, Petr Hlavacek</i>
	Might normalisation techniques improve the correctness of plantar pressure measurements? <i>Claudia Giacomozzi, Vello Macellari</i>
	Foot function and morphology in different diabetic populations in New Zealand <i>Uwe G. Kersting, Kelly Ailken, Jason Gurney, Sharra Martin, Dieter Rosenbaum</i>
	Posters of current work from the host institute Multi-segment foot motion during gait: proof of concept in rheumatoid arthritis <i>Woodburn J, Nelson KM, Lohmann Siegel K, Kepple TM, Gerber LH</i>
	Off-loading the painful forefoot in rheumatoid arthritis is characterised by changes to the regional velocity of the centre of pressure <i>Turner DE, Helliwell PS, Wakefield RJ, Emery P, Woodburn J</i>
	Debridement Of Plantar Callosities In Rheumatoid Arthritis: A Randomised Controlled Trial <i>Davys HJ, Turner DE, Helliwell PS, Conaghan PG, Emery P, Woodburn J</i>
	Off-the-shelf contoured orthoses demonstrate comparable mechanical properties to custom-made foot orthoses at less cost <i>Redmond A, Landorf K, Keenan AM, Emery P</i>

18:15 -	Thackray Medical Museum Visit : lots of interactive displays for children. a wine and buffet reception provided, including gallery tour
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Saturday 31st July, 2004

Activity day

9:30 - 19:00	getting to know each other with lots of fun outdoors hiking, biking, communicating, and celebrating
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Yorkshire Dales

Sunday 1st August, 2004

Session 1 Foot deformities and other pathologies  
Chair: Adrienne Hunt, The University of Sydney, Australia

8:30 - 9:15	Keynote Lecture The art of using foot pressure systems as a clinical tool <i>Rami Abboud, Department of Orthopaedic &amp; Trauma Surgery, University of Dundee, UK</i>
9:15 - 9:30	Sagittal thickness of the plantar fascia is related to static arch shape and regional loading of the foot in plantar fasciitis <i>Scott C. Wearing, James E. Smeathers, Bede Yates, Patrick M. Sullivan, Stephen R. Urry, Phillip Dubois</i>
9:30 - 9:45	How to evaluate a result in conservative flatfoot surgery with dynamic pedobarography analysis? <i>Eric Touleec</i>
9:45 - 10:00	Detecting the presence of functional hallux limitus using Dynamic foot pressure <i>S. Khamis, Z. Yizhar</i>
10:00 - 10:15	Changes in the plantar pressure patterns after correction of hallux valgus deformity with the scarf osteotomy <i>Timo J. Lorei, Dieter Rosenbaum, Hans Klärner, Christian Kinast</i>
10:15 - 10:30	The impact of exercising on school children with valgus heel and flatfeet <i>Jilka Badurova, Hana Samsonová</i>
10:30 - 11:00	Coffee break

Session 2 Biomechanics II  
Chair: Sharon Dixon, University of Exeter, UK

11:00 - 11:15	The problem of footwear for women in the final term of pregnancy <i>Martina Cernekova, Petr Hlavacek</i>
11:15 - 11:30	Off-loading the painful forefoot in rheumatoid arthritis is characterised by changes to the regional velocity of the centre of pressure <i>Turner DE, Helliwell PS, Wakefield RJ, Emery P, Woodburn J</i>
11:30 - 11:45	Accuracy of sensors and electronics with pedar-x insole measurements <i>Manfred Geuder, Axel Kalpen, Peter Seitz</i>
11:45 - 12:00	Biomechanical Assessment of the structure and function of Birkenstock footbed technologies <i>Laura E. Bray, Howard J. Hillstrom, Esther H. Kim, Benjamin P. Helman, Jinsup Song</i>
12:00 - 12:15	Casting methods and plantar pressure: The effects of custom made foot orthoses on plantar pressure distribution <i>Nick Guldemon, Pieter Leffers, Antal Sanders, Nicolaas Schaper, Geert Walenkamp</i>
12:15 - 13:30	Lunch break