Friday 28th July, 2006 cont.				
Keynote lec	ture 2 www.ESM2006.com			
13:45 - 14:30	The importance of the foot and ankle in lower extremity function $\mathop{\it Hillstrom} HJ$			
Session 3 Chairs Dr. Hillstro Prof. Steele	Other applications www.ESM2006.com m H, Hospital for Special Surgery, New York, NY, USA e J, University of Wollongong, Wollongong, NSW, Australia			
14:30 - 14:40	Computersimulation of foot surgery using foot models, neuronal networks and gait analysis $\textit{Wyss}\ \textit{C}$			
14:40 - 14:50	Plantar pressure measurements to evaluate ankle foot orthoses in hemiplegic stroke patients: a pilot study <i>Nolan K J, Hillstrom H J, Sisto S A, Elovic E P</i>			
14:50 - 15:00	Changes of plantar pressure distribution of obese children after a weight reduction program <i>Kostelníková L, Hlavácek P</i>			
15:00 - 15:10	The use of inshoe pressure analysis in the evaluation of running shoes Clinghan R, Amold G P, Cochrane L, Drew T S, Abboud R J			
15:10 - 15:20	A novel and reliable method to measure toe flexor strength <i>Mickle K J, Chambers S, Steele J R, Munro B J</i>			
15:20 - 16:00	Coffee break			
Session 4 Chairs Prof. Morld Dr. Nurse I	NOVE avvard Finalists III www.ESM2006.com ock M, Hamburg University of Technology, Hamburg, Germany M, Nike Sport Research Laboratory, Beaverton, Oregon, USA			
16:00 - 16:25	The influence of metatarsal support height and longitudinal axis position on plantar foot pressures <i>Brodtkorb T H, Kogler G F, Arndt A</i>			
Session 5 Chairs Prof. Morld Dr. Nurse I	Insole and shoes www.ESM2006.com ock M, Hamburg University of Technology, Hamburg, Germany M, Nike Sport Research Laboratory, Beaverton, Oregon, USA			
16:25 - 16:35	The influence of heel height on plantar pressure Cernekova M, Hlavacek P			
16:35 - 16:45	Effective orthotic therapy for the painful cavus foot: A randomized controlled trial <i>Burns J, Crosbie J, Hunt A, Ouvrier R</i>			
16:45 - 16:55	The inshoe heel inserts: friend or foe? Manakkalathil C J, Arnold G P, Cochrane L, Abboud R J			
16:55 - 17:05	A comparison of insole materials on plantar pressure and comfort in the neuroischaemic diabetic foot \textit{Begg} L, \textit{Burns} J			
17:05 - 17:15	Long term effects of orthotic insoles in rheumatoid arthritis A one-year longitudinal follow-up of barefoot loading Nagel A, Meyer L H, Schmiegel A, Walter D, Rosenbaum D			
17:15 - 17:25	Effect of usual versus therapeutic shoes in the decrease of plantar pressure in diabetic neuropathic subjects <i>Bacarin T A, Pereira C S, Sacco I C N</i>			
17:25 - 17:30	Closing remarks Seitz P			



Meeting Overview

Tuesday 25th July, 2006

novel workshops Registration and welcome reception

Wednesday 26th July, 2006

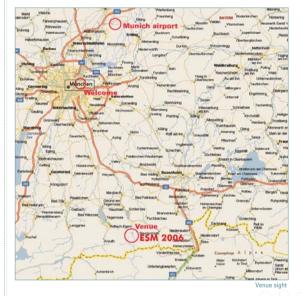
Registration Scientific Presentations Dinner at the Stögeralm

Thursday 27th July, 2006

Activity day: hiking or biking in the Bavarian mountains Dinner: Barbeque at the Island 'Wörth' in Schliersee

Friday 28th July, 2006

Scientific Presentations Banquet at ArabellaSheraton Alpenhotel with Bavarian traditional music and dance novel award ceremony



www.NOVel.de

Venue

ArabellaSheraton Alpenhotel Seeweg 7, Spitzingsee 83727, Germany tel.: +49 (0)8026 7980 fax: +49 (0)8026 798879 email: alpenhotel@arabellasheraton.com internet: www.sheraton.de/alpenhotel

novelgmbh Ismaninger Str. 51 81675, Munich, Germany tel.: +49 (0)89-417767-0 fax: +49 (0)89-417767-99 e-mail: novel@novel.de





art in science

Munich, Germany, July 25, 2006 Spitzingsee, July 26 to 28, 2006

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Program

ESM2006 Presentations

Tuesday	y 25th July, 2006	
Welcome to		www.ESM2006.com
10:00 - 21:00	Registration	
10:00 - 16:00	novel (GmbH) Workshops (45 minutes each): Workshop I Physics of Pressure Distribution Workshop II Hardware, Firmware and Measu Workshop III Analysis Software and Reporting	Iring Software for PDM
17:00 - 21:00	Welcome and registration at Storms Art Galle Summer Swing jazz music	ry
	day 26th July, 2006	
8:30 - 9:30	Registration	
Keynote lec		www.ESM2006.com
9:30 - 10:15	Application of pressure distribution technology Brüggemann G P	y in sports and exercises
Session 1 Chairs Prof. Brügg Dr. Lafortun	Sports gemann G P, German Sport University Cologne, Colog ne M, Nike Sport Research Laboratory, Beaverton, Or	www.ESM2006.com gne, Germany regon, USA
10:15 - 10:25	The influence of different shoe lacing conditions distribution, shock attenuation and rearfoot mot <i>Hagen M, Hennig E M</i>	
10:25 - 10:35	Integration of 3D kinematics and pressure distri for golf swing analysis <i>Kersting U G, Gurney J K</i>	bution measurements
10:35 - 10:45	Influence of long distance running on plantar pro Fernholz F, Kibele C, Rosenbaum D	essure pattern <i>Nagel A,</i>
10:45 - 11:15	Coffee break	
Keynote lect	ture 2	
11:15 - 12:00	Clinical gait analysis in trauma and reconstructi - fact or fiction? <i>Mittlmeier T</i>	ve surgery
Session 2 Chairs Prof. Mittln Dr. Abbouc	Technology neier T, University of Rostock, Rostock, Germany I R J, University of Dundee, Dundee, Scotland, UK	
12:00 - 12:10	Subsurface shear stress associated with forefoo on the neuropathic foot <i>Mueller M J, Zou D, Bohne</i>	
12:10 - 12:20	Determination of the mechano-electrical signal soot filled silicones: Possibilities for use in texti Rothstock S, Mämpel J, Witte H, Scheibner W, Feustel	le pressure sensors
12:20 - 12:30	Pressure mat for hand-arm vibration on-field tes algorithms and interfaces for acquisition and pre <i>Concettoni E, Paone N, Scalise L</i>	
12:30 - 14:00	Lunch break	
Session 3 Chairs Prof. Morlo Pisciotta J,	NOVE avvard Finalists I ock M, Hamburg University of Technology, Hamburg, Nike Sport Research Laboratory, Beaverton, USA	www.ESM2006.com Germany
14:00 - 14:25	Mid foot kinetics characterize structural polymo disease <i>Sinacore D R, Bohnert K L, Hastings M K</i>	rphism in diabetic foot
14:25 - 14:50	Pedobarography and radiographic images in the	
	deformities in rheumatoid arthritis Schmiegel A, Vie	eth V, Gaubitz M, Rosenbaum D

Session 4	Poster & Coffee	
Session 4 15:15 - 16:20	Poster & Coffee Plantar pressure distribution in patients with Mu Hetsroni I, Nyska M, Ayalon M The impact of different insole arch supports on characteristics Badiurová J, Rosenbaum D, Nag, Frontal plane load beneath the calcaneus and re Bennett P J, Everson D A comparative study between two pressure maj pliance Cochrane L, Fergus K, Annold G P, Ba Pressure forces created by the contact of a ride hipotherapy Dvorakova I, Peham C, Janura M Reliability of Pressurestat™ for measuring plant theumatoid arthrits Firth J, Tumer D E, Smith W Does diabetes interfare with ankle-joint functio Giacomozzi C, Macellari V, D'Ambrogi E, Uccioli What happens to the contra-lateral foot with di Kanade R V, van Deursen R WM, Price P E, Harc	Iller Weiss disease the changes of foot loading <i>el A</i> Plationship to foot type classification pping systems: FSA versus novel <i>irdsley G, Abboud R J</i> <i>i's</i> body on the horse's back during ar foot pressures in patients with <i>V, Helliwell P S, Woodburn J</i> <i>n</i> ? <i>i L</i> abetic plantar ulceration? <i>ding K G</i>
	monitoring activity <i>Morey Klapsing G, Camp Fau</i> Does the hypermobility of the first ray at the for transfermetatarsalgia on the second ray? <i>Linder</i> Measurement of centre of pressure in the stand platforms <i>McLaughlin P A, Best R</i> Plantar pressure pattern in stairs climbing <i>Nage</i> Plantar pressure distribution during dynamic loa diagnosis <i>Pavláckova J, Hlavácak P, Zurková E</i> The pector system: normal in-shoe pressure v <i>Putti A B, Arnold G P, Cochrane L, Abboud R J</i> Influence of walking speed on the duration and patients with theumatoid arthritis <i>Semple R, Tu</i>	If Á, Poveda Verdú D, Montiel Parreno E t correlate with a insufficiency and a nlaub P, Wyss C ling subject: an alternative to force al A, Frerick S, Rosenbaum D d of foot at children with scoliosis alues during gait velocity of the centre of pressure in mer D E, Helliwell P S, Woodburn J
	Dynamic plantar pressure distribution in multipl, neurological status Tsvetkova LT, Stoliarov DI, I Prakhova N L, Nikiforova G I, Lebedev V V Is disease duration related to foot function, pair patients with foot complaints? van der Leeden M, Steultjens M, Dekker J H M, Estimating subsurface shear stress in the neuro distribution Zou D, Sinacore D R, Bohnert K-L, M Comparison of plantar pressures distribution be Hlavácek P, Kostelníková L The influence of varied midsole flexibility in a cr	vko L O, Ilves G A, Abdurahmanov A M, n and disability in rheumatoid arthritis , Prins P, Dekker J pathic foot from plantar pressure <i>Aueller M J</i> tween obese and non-obese children
	and player perception McAlpine P R, Karsting U Measurement of hand forces on vibrating tools: upon calculation of the coupling forces. Kaulbars Modifications of baropodometrie induce by plan First metatarsal phalangeal joint flexibility: a qu limitus Song J S, Whitney K, Heilman B, Kim E, I Lower longitudinal plantar arch in diabetic neurr during gait Sacco I C N, Bacarin T A, Watari R, Biomechanical optimization of orthopadic footw plantar pressure measurement Bus S A, Haspel Effect of running and orthopaedic footwear on comfort in rheumatoid arthritis Hennessy K, Bur Biomechanics of the foot in rheumatoid arthritis the factors that predict disease impact Woodbu Gender differences in foot function during walki	influence of the handle geometry s U tar arch stimulation Janin M, Dupui P antitative tool for evaluation of hallux Hillstrom H J opathy: effects in plantar pressure Souza L C ear for diabetic patients using in-shoe s R, van Schie C H M, Mooren P slantar pressure, pain and perceived ns J, Pankala S : identifying abnormal function and m J, Turner D E, Helliwell P S ing, running and turning: Implications
	for overuse injuries in female athelets Wunderline	o. o i

Session 5 Chairs Dr Woodbu	Disease www.ESM2006.com urn J, Glasgow Caledonian University, Glasgow, Scotland, UK
Prof. Muell	er M J, Washington University School of Medicine, St. Louis, MO, USA
16:20 - 16:30	What happens to the contra-lateral foot following diabetic foot amputations? Kanade R V, van Deursen R WM, Price P E, Harding K G
16:30 - 16:40	Forefoot joint damage, pain and disability in rheumatoid arthritis patients with foot complaints: the role of plantar pressure and gait characteristics van der Leeden M, Steultjens M, Dekker J H M, Prins P, Dekker J
16:40 - 16:50	Foot loading patterns in children after Ponseti clubfoot treatment Bosch K, Böhm S, Sinclair M F, Rosenbaum D
16:50 - 17:00	Short-term and long-term follow-up of patients with diabetes mellitus with minor amputations <i>Bragovsky B V, Tsvetkova L T</i>
17:00 - 17:10	Long term results of the keller-brandes procedure Is the term "functional amputation" justified? Kranzl A, Kadnar G, Knahr K, Schneider W
17:10 - 17:20	Displacement osteotomy for hallux valgus correction Prospective clinical and pedobarographic study Speiser U, Fengler H, Staemmler A, Hahn U
	ay 27th July, 2006
Activity day	
8:00 - 21:00	hiking or biking in the Bavarian mountains Barbeque at the Island 'Wörth' in Schliersee
Keynote lect	28th July, 2006 ture 1 www.ESM2006.com
09:00 - 09:45	Bone loss during long duration spaceflight: Is there a biomechanical etiology? <i>Cavanagh P R</i>
Session 1 Chairs Prof. Cavar Dr. Rosenb	Motion ESM2006.com nagh P R, The Cleveland Clinic Foundation, Cleveland, Ohio, USA aum D, University Hospital Münster, Münster, Germany
09:45 - 09:55	Partial weight bearing of total hip patients with a trochanteric osteotomy - Long-term vertical force measurements in and outside the hospital Hurkmans H L P, Bussmann J B J, Selles R W, Benda E, Stam H J, Verhaar J A N
09:55 - 10:05	Pressure distribution and muscular activity on treadmill - downhill - running with an unstable shoe construction and normal running shoes Bochdansky T, Maetzler M, Laube W
10:05 - 10:15	Study of foot dynamic load at inclined plane Zedbazar E, Pavlácková J, Gresák V, Hlavácek P
10:15 - 10:25	
	Classification of gait alterations in rheumatoid arthritis based on cluster analysis of peak pressure curves Martelli F, Giacomozzi C, Schmiegel A, Nagel A, Rosenbaum D
10:25 - 10:35	analysis of peak pressure curves Martelli F, Giacomozzi C, Schmiegel A,
	analysis of peak pressure curves <i>Martelli F, Giacomozzi C, Schmiegel A,</i> <i>Nagel A, Rosenbaum D</i> Relationship between foot motion and plantar pressures in the diabetic
10:25 - 10:35 10:35 - 11:00 Session 2 <i>Chairs Prof. Morld</i>	analysis of peak pressure curves Martelli F, Giacomozzi C, Schmiegel A, Nagel A, Rosenhaum D Relationship between foot motion and plantar pressures in the diabetic foot Turner D E, Burton K, Helliwell P S, Woodburn J
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10:25 - 10:35 10:35 - 11:00 Session 2 Chairs Prof. Morlo Dr. van Det	analysis of peak pressure curves Martelli F, Giacomozzi C, Schmiegel A, Nagel A, Rosenhaum D Relationship between foot motion and plantar pressures in the diabetic foot Turner D E, Burton K, Helliwell P S, Woodburn J Coffee break NOVEL avvard Finalists II www.ESM2006.com back M, Hamburg University of Technology, Hamburg, Germany ursen R, Cardiff University, Cardiff, UK Intraoperative pedography - development, validation and clinical use of a novel method for intraoperative biomechanical assessment Bichter M, Zech S, Hildebrand F, Vanin N, Schulz-Wildelau C, Droste P, Geerling J,
10:25 - 10:35 10:35 - 11:00 Session 2 <i>Chairs Prof. Morla</i> <i>Dr. van Deu</i> 11:00 - 11:25	analysis of peak pressure curves Martelli F, Giacomozzi C, Schmiegel A, Nagel A, Rosenbaum D Relationship between foot motion and plantar pressures in the diabetic foot Turner D E, Burton K, Helliwell P S, Woodburn J Coffee break NOVEL avvard Finalists II www.ESM2006.com ck M, Hamburg University of Technology, Hamburg, Germany ursen R, Cardiff University, Cardiff, UK Intraoperative pedography - development, validation and clinical use of a novel method for intraoperative biomechanical assessment Richter M, Zech S, Hildebrand F, Vanin N, Schulz-Wildelau C, Droste P, Geerling J, Knobloch K, Krettek C Obesity, midfoot plantar pressures and plantar fat pad thickness: Are these parameters related in children?

12:15 - 13:45 Lunch break