



## ESM2002 Schedule

Wednesday July 31<sup>st</sup>, 2002

**ESM2002 Welcome reception and registration**

There will be a welcome reception on the evening of July 31<sup>st</sup>, 2002 in the Olympic (Gold) Ballroom. A registration booth will also be set up at this time.

## ESM2002: Thursday August 1, 2002

### Session I : Pathologies and clinical treatment

Keynote	08:30	-	09:15	D. Rosenbaum	Clinical applications of pressure distribution measurements
	09:15	-	09:30	J. Woodburn	Plantar pressure and footprint analysis in rheumatoid arthritis: A comparison of patients classified by 3-D MRI image analysis of the subtalar and midtarsal joints.
	09:30	-	09:45	A. Vasarhelyi	Partial weight bearing after surgery of fractures of the lower extremity - does it work?
	09:45	-	10:00	D. Oeffinger	Foot pressure and radiographic measurements in the treated clubfoot
	10:00	-	10:15	A. Kranzl	Rehabilitation process after a Chevron osteotomy for hallux valgus correction - A pressure distribution analysis.
	10:15	-	10:45	Coffee Break	

### Session II: 'Novel' methods and innovations

	10:45	-	11:00	H. Hillstrom	Index of pronation
	11:00	-	11:15	W. Schöllhorn	Assessment of individual foot pressure distributions during therapy by means of a holistic pattern recognition approach.
	11:15	-	11:30	J. Kotovsky	A novel microelectromechanical transducer for measuring contact stresses.
	11:30	-	11:45	A. Cristalli	Laser Vibrometer and capacitive matrices: New measurement procedure of hand-arm vibration
	11:45	-	12:00	I. Spodrina	Individual Corrective inserts like part of the treatment for diabetic foot.

12:00 - 13:15 Lunch

### Session III : novel Awards Finalists

	13:15	-	13:40		
	13:40	-	14:05		
	14:05	-	14:30		
	14:30	-	14:45	Break	
	14:45	-	15:10		
	15:10	-	15:35		
	15:35	-	16:00		

16:00 - 16:15 Coffee Break

### Session IV : You'd better sit down for this....

Keynote	16:15	-	17:00	B. von Rechenberg	What can an electronic mat tell us about about the well being of horses?
10	17:00	-	17:15	B. Hinz	Study of human-seat interface pressure distribution on car seats.
11	17:15	-	17:30	R. Mootanah	Evaluation of optimum size of bubble wrap for the preventions of pressure sores.
12	17:30	-	17:45	D. Hill	Assessing pelvic obliquity in non-ambulatory, neuromuscular scoliosis subjects.
13	17:45	-	18:00	T. Kernozek	Boundary loads in finite-element seating models.

### Poster Sessions

18:00 - 19:30

## ESM2002: Friday August 2, 2002

### novel workshop

an optional novel workshop will be held on the morning of August 2nd. This is your chance to see the newest hardware innovations, latest software developments, and learn about advanced data collection techniques.

### Activity afternoon

on Friday afternoon, registrants and guests will enjoy an afternoon of activities - western Canadian style. You can choose to get wet on a white-water rafting trip, tame the wild west on a two hour horseback ride in to the mountains, or simply enjoy a pleasant hike in to beautiful Kananaskis valley.

## ESM2002: Saturday August 3rd, 2002

### Session I : Sports

Keynote	8:30	-	9:15	E. Müller	Pressure distribution analysis in winter sport activities.
	9:15	-	9:30	E. Morag	The effect of heel cupping on heel pressure during soccer activities.
	9:30	-	9:45	D. Machado	Characteristics of ground reaction forces, moments and COP during volleyball block jumps.
	9:45	-	10:00	S. Lindinger	Pressure distribution systems and feedback training - typical patterns in skating push-offs of top level and non top level skaters in cross country ski racing.
	10:00	-	10:15	T. Smith	The effect of linear density on pressure patterns during bicycle helmet impacts.
	10:15		10:30	K-A Bowles	Are sports brassieres too tight for active females?
	10:30	-	11:00		Coffee Break

### Session II : 'Novel' innovation & application

	11:00	-	11:15	D. Welcome	The application of a novel pliance mat for the measurement of hand-handle coupling force.
	11:15	-	11:30	D. Rosenbaum	Will the spatial resolution of pedographic platforms affect plantar pressure patterns of children or adults.
	11:30	-	11:45	J. Müller	Is relaxation under the saddle measureable? A study using the pliance system, novel GmbH.
	11:45	-	12:00	W. His	High resolution pressure and estimated strain of plantar soft tissue under the second metatarsal head during stepping forward.
	12:00	-	12:15	C. Giacomozzi	Use of an emed system in the design of a sensorized reciprocating gait orthosis.
	12:15	-	13:30		Lunch

**Session III : Gait, Posture & Locomotion**

Keynote	13:30	-	14:15	T.McPoil	Can plantar pressure data be used to assess the effectiveness of foot orthoses
	14:15	-	14:30	M. Tanaka	Standing posture maintenance with ankle ROM constraint: A foot pressure study.
	14:30	-	14:45	M. Razeghi	The effect of orthoses on the plantar pressure distribution pattern in different foot types.
	14:45	-	15:00	R. Weist	Changes of plantar pressure and muscle activity patterns under the influence of fatigue after exhausting treadmill running.
	15:00	-	15:15	T. Cahill	Pressure & temporal changes in a running shoe designed to possibly trigger the windlass mechanism.
	15:15	-	15:30	S. Dixon	Insoles can increase peak pressures in running shoes.
	15:30	-	16:00	Coffee Break	

**Session IV : Pathologies and clinical treatment II**

	16:00	-	16:15	C. Fritsch	The Neuropool project: A world wide project to develop a database for diabetic foot
	16:15	-	16:30	T. Tsvetkova	Patients with multiple sclerosis: How do they walk?
	16:30	-	16:45	R. Darmana	Foot pressure measurements in children walking with tibial rotation abnormalities. Preliminary results.
	16:45	-	17:00	B. Munro	Effects of rheumatoid arthritis on foot function: Implication for slipper design.
	17:00	-	17:15	K. Nielsen	Plantar pressure distribution in children operated on for clubfoot

17:15 - 17:30 **Closing Remarks**

16:30 - 19:00 **Cocktails**

19:00 - end **Banquet and novel award ceremonies**

ESM2002: Sunday August 4, 2002

**Depart for Calgary**

Depart for Calgary for the start of the IV World Congress of Biomechanics