



**ICEL 6**

16 - 19 June 2008

Cabourg, Normandy, France

## 6th International Conference on Equine Locomotion



General schedule



Monday 16 June 2008

16h00-20h00

Registration (Grand Hotel)

19h30-22h00

Welcome reception (Grand Hotel)

Tuesday 17 June 2008

8h30 **Opening of the Conference**

8h40-8h55 **Tribute to Douglas Leach (by Hilary Clayton)**

9h00-10h00 **Oral session 1**

*Award cand.*

**Horse-rider and horse-saddle interactions I**

9h00	de Cocq	The Netherlands	N	The effect of rising and sitting trot on back movements and head-neck position of the horse
9h15	Roepstorff	Swed, Netherl, Switzerl	N	Influence of left versus right rising trot on the kinetics and kinematics of the horse
9h30	Byström	Swed, Switzerland	N	Basic kinematics of the saddle and rider in high level dressage horses, walking and trotting on a treadmill
9h45	Gresak	Czech Republic	N	3D-scanning of morphology of horse back saddle area

10h00-10h30 **Coffee break (and visit exhibit)**

10h30-11h00 **Poster sessions 1 A and B**

**Methods and Techniques**

10h30	Addis	UK	Y	Decreasing variability in assessment of gait in the young horse
10h35	Burvill	Australia	N	Measuring hoof conformation using photogrammetry
10h40	Ricard	France	N	Heritability and genetic correlations between morphological traits measured by a 3D morphometric method
10h45	Nankervis	UK	Y	Comparison of stride frequency measured using a leg mounted accelerometer and opto-electronic system
10h50	Sheridan	Australia	Y	Measures of metacarpophalangeal joint angle in the equine forelimb
10h55	Ravary	France	N	Correlations between speed of sound in loaded equine superficial digital flexor tendons and tendon mechanical properties

**Clinical applications (1/2)**

10h30	Lejeune	Belgium	N	Correlations of IGF-1 and collagen II derived peptides in Ardenner horses with juvenile degenerative osteo-arthropathy
10h35	Daix	Belgium	Y	Effect of chondroprotector or placebo on lameness scores and matrix metalloproteinase activity in synovial fluid of ponies
10h40	Richard	France, Belgium	Y	Impact of mild to moderate lameness on physiological variables measured in french trotters
10h45	Hampson	Australia	Y	GPS analysis of activity of domestic mares and new born foals
10h50	Woodall	UK	N	A case study of clinical farriery treatment for dropped fetlock
10h55	Simhofer	Austria, Netherl	Y	Comparison of the masticatory cycles of horses before and after dental treatment using kinematic analysis

11h15-12h30 **Oral session 2**

**Horse-rider and horse-saddle interactions II**

11h15	von Peinen	Switzerl, Swed, Netherl	Y	Relationship between forces acting on the horse's back and the movements of horse and rider at walk and trot
11h30	Bogisch	Switzerl, Swed, Netherl	Y	Influence of speed on the horse-rider interaction and resulting saddle forces at walk and trot
11h45	Peham	Austria	N	Comparison of the forces acting on the horse's back and the rider's stability in different seating positions at trot
12h00	Baltacis	Austria	Y	Evaluation of forces and pressure distribution under a fitting saddle by using different saddle pads
12h15	Hofmann	Austria	Y	The influence of different saddle pads on forces and pressure distribution under a too wide saddle

12h30-13h45 **Lunch**

13h45-15h00 **Oral session 3**

**Measurement techniques, limb and trunk mechanics and modelling**

13h45	Davies	Australia	N	Ex vivo calibration and validation of in vivo bone strain measures.
14h00	den Hartog	The Netherlands	Y	In vitro evaluation of metacarpophalangeal joint loading during simulated walk
14h15	Collins	UK, Austria	N	Development of finite element models of equid's digits
14h30	Chan	UK	N	Customisation of non-invasive computational equine distal forelimb model to measure changes in tendon strain
14h45	Nauwelaerts	USA	N	Trunk deformation in the trotting horse

15h15 **Departure to the Mont St Michel**

# Wednesday 18 June 2008

8h00-9h00 **Welcome coffee (and visit exhibit and posters)**

8h20-9h00 **Poster session 2**

*Award cand.*

**Clinical applications (2/2), Imaging and Rehabilitation**

8h20	Robert	France	N	Clinical manifestations of Developmental Orthopaedic Disease in yearlings
8h25	Lepeule	France	N	Effects of exercise conditions on developmental orthopaedic disease in French foals
8h30	Pagger	Austria, UK	Y	Determination of the stiffness of the equine cervical spine
8h35	Schmidburg	Austria, Germ, UK	N	Spatial capacity of the cervical spinal canal during movement
8h40	Didierlaurent	France	N	Automatic quantification of the normal scintigraphic uptake of the cervical vertebrae in horses
8h45	Carnicer	France	Y	Use of 3D reconstruction software (echoquant 3D) to evaluate healing of superficial digital flexor tendon lesions in horses
8h50	Leblond	Canada, France	N	Three dimensional characterization of fascicular architecture of the equine superficial digital flexor tendon
8h55	Meghoufel	Canada, France	Y	Internal structure assessment of the equine superficial digital flexor tendons from in vivo ultrasound images

9h15-10h45 **Oral session 4**

**Biomechanical effects of track surfaces**

9h15	Peterson	USA	N	In-Situ Properties of Racing Surfaces
9h30	Stover	USA	N	Hoof accelerations and ground reaction forces of thoroughbred racehorses measured on dirt, synthetic, and turf track surfaces
9h45	Setterbo	USA	N	Forelimb kinematics of galloping thoroughbred racehorses measured on dirt, synthetic, and turf racetrack surfaces
10h00	Chateau	France	N	Influence of race track characteristics on 3D accelerometry of the foot in the horse trotting at high speed: preliminary results
10h15	Robin	France	N	Use of a dynamometric horseshoe for analysing race track characteristics at high speed trot
10h30	Crevier-Denoix	France	N	Influence of racetrack surface on the equine superficial digital flexor tendon loading at high speed trot

10h45-11h15 **Coffee break (and visit exhibit)**

11h15-12h00 **Invited lecture 1: Dr Martyn Shorten, USA. "Biomechanical aspects of sport surfaces for human athletes"**

12h00-13h15 **Lunch**

13h15-14h00 **Invited lecture 2: Pr Jean-Marie Denoix, France. "Functional anatomy and biomechanics : the link between clinical manifestations, diagnosis and management"**

14h15-16h00 **Oral session 5**

**Clinical applications and rehabilitation**

14h15	Hausler	USA	N	Three-dimensional pelvic deformation in horses
14h30	Kaufmann	Austria, UK	N	Gait pattern and pattern of limb raises in horses with stringhalt
14h45	Wijnberg	The Netherlands	N	Quantification of surface EMG signals in healthy ponies and in two warmbloods with stringhalt treated with botox®
15h00	Zaneb	Austria, UK	Y	Kinematic and Surface Electromyographic (sEMG) Study of Equine Back and Hindlimbs in Clinically Sound and Lame Horses
15h15	Back	The Netherl, USA, France	N	The use of force plate measurements to titrate the dosage of a new coxib in lame horses
15h30	Clayton	USA	N	Effects of tactile stimulation of the pastern and coronet on limb kinematics during trotting
15h45	van Schie	The Netherlands, France	N	Computerized ultrasonography as a tool to assess the biomechanical properties of injured SDF tendons in the horse

16h15 **Departure to the Haras du Pin**

# Thursday 19 June 2008

8h30-10h15	<b>Oral session 6</b>	<i>Award cand.</i>		<b>Performance evaluation - Hoof and motion</b>
8h30	Lawson	UK	N	Biomechanical factors influencing sale price in the showjumper
8h45	McDonald	UK	Y	An investigation in to the relationship between fluctuating asymmetry and performance in event horses
9h00	Wilson	UK	Y	Skeletal forelimb measurements and hoof spread in relation to asymmetry in the bilateral forelimb
9h15	Cust	Australia	Y	Hoof conformation and performance in Thoroughbreds in Macau
9h30	Decurnex	Switzerl, Australia	N	Association between exercise and proximal hoof circumference in Thoroughbreds during their preparation for racing
9h45	Hobbs	UK	N	Relationships of in vitro radial hoof strain to load and joint angles
10h00	Colborne	UK	N	Horizontal moment around the hoof centre of pressure during walking in a straight line and on right and left circles

10h15-10h45 **Coffee break (and visit exhibit)**

10h45-11h15	<b>Poster session 3</b>	<b>Gait and Locomotion</b>		
10h45	Nicodemus	USA	N	Forelimb Kinematics of the Walk and Paso Llano of the Peruvian Paso
10h50	Slater	USA	N	Comparaison of Temporal Variables of the Arabian Hunter and Country English Pleasure Canters
10h55	Rogers	New Zealand	N	Changes in kinematics in relation to preconditioning and race training in a cohort of 2 year old Thoroughbred racehorses
11h00	Johnson	UK	Y	The relationship between lumbosacral flexion-extension movement and canter speed on a treadmill.
11h05	Rhodin	Swed, Chile, Nethl, Switzl	Y	Effect of head and neck position on limb and back kinematics in the ridden horse at walk and trot.
11h10	Caudron	Belgium	Y	Influence of corrective trimming on the position of the centre of forces under the hoof during landing, mid stance and breakover

11h15-12h15 **Visit exhibit**

12h15-13h15 **Lunch**

13h15-14h30	<b>Oral session 7</b>	<b>Gait and locomotion</b>		
13h15	Weishaupt	Switzl, Swed, Nethl, Germ	N	Timing and loading of the limbs at the passage
13h30	Waldern	Switzerland, Nethl, Swed	Y	Influence of different head-neck positions on force and time parameters at walk and trot in the unriden horse
13h45	Gómez Álvarez	Chile, Sweden, Netherl	Y	Back kinematics of healthy horses trotting on a treadmill vs over ground
14h00	Janura	Czech Rep, Austria	N	The influence of change in horse's walk speed on the back movement mechanism in relation to hippotherapy
14h15	Church	UK	Y	Symmetry of dorsoventral hind limb movement during over ground locomotion in the horse

14h35-15h20 **Schamhardt Memorial Lecture: Pr Ingvar Fredricson, Sweden**

15h20-15h40 **Coffee break**

15h40 **Departure to the CIRALE and the racetrack...**

19h30 **Cocktail**  
20h30 **Gala dinner** **Grand Hotel**