Large Animal Programme
26th Annual Scientific Meeting
July 13-15, 2017
Wednesday, 12 July

Pre-Congress Labs

UNIVERSITY OF EDINBURGH - VET SCHOOL (EASTER BUSH CAMPUS)

08:00-17:30  Comparative Imaging of the Distal Limb - dry lab
            E. Busschers, C. Sherlock, S. Taylor, F. David, S. Puchalski

08:00-17:30  Advanced Dental Techniques - wet lab
            P. Dixon, H. Tremaine, N. Townsend, L. Vlaminck, C. Pearce

Thursday, 13 July

Resident Session

SIDLAW & FINTRY AUDITORIUM

13:00-13:40  ECVS Exam - what to expect (Sidlaw Auditorium)
            Exam Committee

13:40-15:40  Imaging Case Discussions (Fintry Auditorium)
            S. Puchalski

Main Programme

CROMDALE HALL

15:00-16:30  Registration
Thursday, 13 July

**Opening Session - State of the Art**
PENTLAND AUDITORIUM

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>16:30-17:30</td>
<td>Craniofacial Clefts and Velopharyngeal Function in Humans – Investigation and Treatment</td>
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<td>F. Mehendale</td>
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**Resident Forum**
FINTRY AUDITORIUM

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>17:45-18:00</td>
<td>Ultrasound – guided approach to the cervical articular process joints in horses: a validation of the technique in cadavers.</td>
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<td>JP Johnson Discussant: F. David</td>
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<tr>
<td>18:00-18:15</td>
<td>Retrospective study of ultrasonographic features of superficial digital flexor tendon (SDFT) injuries in 469 Thoroughbred racehorses in Hong Kong, and their relationship to outcome.</td>
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<td>R. Alzola Domingo Discussant: R. Smith</td>
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<tr>
<td>18:15-18:30</td>
<td>Efficacy and dermal tolerance of an alcohol-based skin antiseptic in horses</td>
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<td>VJ Tannahill Discussant: D. Verwilghen</td>
</tr>
<tr>
<td>18:30-18:45</td>
<td>Comparison of incisional bursting strength of a bidirectional absorbable knotless suture material versus a standard continuous absorbable suture material for closure of the equine linea alba</td>
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<td>F. Barcelo Oliver Discussant: D. Archer</td>
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<tr>
<td>18:45-19:00</td>
<td>Results of a manual non-surgical reduction technique to treat strangulating indirect inguinal hernias in the horse and comparison of outcome of a conservative versus a direct surgical approach: 105 cases.</td>
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<td>K. Baranková Discussant: J. Ensink</td>
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<tr>
<td>19:00-19:15</td>
<td>Retrospective study on the influence of nephrosplenic space closure in recurrent colic</td>
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<td>JM Arévalo Rodríguez Discussant: H. Wilderjans</td>
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<tr>
<td>19:15-19:30</td>
<td>Clinical and radiographic long-term results after lag screw osteosynthesis of short incomplete proximal sagittal fractures of the proximal phalanx in horses</td>
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<td>MF Bryner Discussant: I. Wright</td>
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Thursday, 13 July (cont’d)

19:30-19:45  Management and long-term outcome of cervico-thoracic vertebral column trauma in horses diagnosed with computed tomography: 9 cases
             L. Wright  Discussant: T. Hughes

19:45:20:00  Osseous trauma in the proximal phalangeal sagittal groove diagnosed using low-field MRI in mature sport-horses: conservative vs surgical treatment.
             G. Lipreri  Discussant: J. Kümmerle

20:00-20:15  Accuracy and precision of equine navicular bursa volume measurement made from low field MRI datasets using 3D® Slicer software – an ex vivo study.
             M. Marcatli  Discussant: C. Sherlock

Welcome get-together

STRATHBLANE HALL

20:00-23:00  Welcome get-together at the EICC, Strathblane Hall
### In-depth: What about the ligaments?

**TINTO & MOORFOOT**

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>08:30-08:55</td>
<td>Clinical features and diagnosis of collateral ligament injuries</td>
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<td></td>
<td>F. James</td>
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<tr>
<td>08:55-09:20</td>
<td>Comparative Imaging in the evaluation of ligament desmitis</td>
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<tr>
<td></td>
<td>S. Puchalski</td>
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<tr>
<td>09:20-10:00</td>
<td>Intra-articular ligaments, arthroscopic observations and treatment</td>
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<tr>
<td></td>
<td>I. Wright</td>
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<tr>
<td>10:00-10:20</td>
<td>Conservative and innovative treatments for desmitis</td>
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<td></td>
<td>E. Busschers</td>
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<tr>
<td>10:20-10:30</td>
<td>Discussion</td>
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<td>10:30-11:00</td>
<td>COFFEE BREAK</td>
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### Short Communications

**KILSYTH**

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>08:45-09:00</td>
<td>The role of the stable fly (Stomoxys calcitrans) in equine sarcoid transmission: an experimental study.</td>
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<tr>
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<td>M. Haspeslagh</td>
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<tr>
<td>09:00-09:15</td>
<td>Surgical management of umbilical infection in foals, short and long-term outcome: 65 cases (2010-2015)</td>
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<td>G. Kelmer</td>
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<tr>
<td>09:15-09:30</td>
<td>Foramen Epiploicum Mesh Closure (FEMC) during laparotomy for epiploic foramen entrapment colic surgery.</td>
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<td>T. van Bergen</td>
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<tr>
<td>09:30-09:45</td>
<td>Noninvasive diode laser treatment of iris cysts in horses</td>
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<td></td>
<td>JM Ensink</td>
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<tr>
<td>09:45-10:00</td>
<td>Does use of subcutaneous medical grade honey improve healing of repaired traumatic equine lacerations?</td>
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<td></td>
<td>G. Kelmer</td>
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<tr>
<td>10:00-10:15</td>
<td>Repeatability of gait pattern variables measured by an extremity mounted inertial measurement sensor system in sound horses at trot.</td>
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<td>AM Cruz</td>
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<td>10:15-11:00</td>
<td>COFFEE BREAK</td>
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### Short Communications - Orthopaedics

**TINTO & MOORFOOT**

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>11:00-11:15</td>
<td>Magnetic resonance imaging of equine carpal disorders – 38 clinical cases</td>
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<td>M. Waselau</td>
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<tr>
<td>11:15-11:30</td>
<td>Effect of trotting speed on kinematic variables measured by an extremity mounted inertial measurement unit sensor system in normal horses under controlled conditions of treadmill exercise.</td>
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<td></td>
<td>AM Cruz</td>
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<tr>
<td>11:30-11:45</td>
<td>Prevalence of fracture in Thoroughbred flat racehorses following intrasynovial medication</td>
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<td>LCR Smith</td>
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<td>LCR Smith</td>
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### Friday, 14 July (cont’d)

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| 11:45-12:00 | **Barbed versus standard suture repair of longitudinal tears of the equine deep digital flexor tendon: An ex vivo study**  
D. Castillo                                                                 |
| 12:00-12:15 | **Optimising the LPS model for the experimental induction of temporary synovitis and lameness in Standardbred horses**  
E. Van de Water                                                                 |
| 12:15-12:30 | **Effects of stanOzolol on an in vitro model of osteoarthritis**  
M. Castro Martins                                                                 |
| 12:30-14:00 | **LUNCH BREAK**                                                                             |

**Look outside the box:** The programme committee recommends today’s lecture „Treatment recommendations for ectopic ureters“ in the small animal programme.  
(11:30-12:15, Sidlaw Auditorium)

### Lunch time sessions

**CARRICK 2+3**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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| 13:15-14:15 | **Meet the Expert: Tricks and pitfalls in dental extractions**  
P. Dixon                                                                 |

**PENTLAND AUDITORIUM**

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| 13:15-13:45 | **Information session for Residents and Supervisors: Credentials / Grants / Exam**  
JP Billet                                                                 |
Friday, 14 July (cont’d)

In-depth: Advancements in Dentistry

TINTO & MOORFOOT

<table>
<thead>
<tr>
<th>Time</th>
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<th>Presenter(s)</th>
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<tbody>
<tr>
<td>14:00-14:15</td>
<td>Advances in equine dentistry</td>
<td>P. Dixon</td>
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<tr>
<td>14:15-14:35</td>
<td>Understanding dental CT imaging in health and disease</td>
<td>S. Puchalski</td>
</tr>
<tr>
<td>14:35-14:50</td>
<td>Recognizing and managing apical infection</td>
<td>C. Pearce</td>
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<tr>
<td>14:50-15:05</td>
<td>Dealing with periodontal disease 2017: widening, packing or?</td>
<td>P. Dixon</td>
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<tr>
<td>15:05-15:25</td>
<td>Dental reconstructive techniques - are we getting any better?</td>
<td>C. Pearce</td>
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<tr>
<td>15:25-15:45</td>
<td>Equine exodontia: techniques, complications and current outcomes</td>
<td>P. Dixon</td>
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<tr>
<td>15:45-16:00</td>
<td>Discussion</td>
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<td>16:00-16:30</td>
<td>COFFEE BREAK</td>
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Short Communications - General

TINTO & MOORFOOT

<table>
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<tr>
<th>Time</th>
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<th>Presenter(s)</th>
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<tbody>
<tr>
<td>16:30-16:45</td>
<td>Cone beam computed tomography of the head in standing horses – 73 clinical cases</td>
<td>MD Klopfenstein Bregger</td>
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<tr>
<td>16:45-17:00</td>
<td>Coil embolization of the internal and external carotid arteries on standing horses</td>
<td>CB Bussy</td>
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<tr>
<td>17:00-17:15</td>
<td>Overground endoscopic findings and respiratory sound analysis in horses with recurrent laryngeal neuropathy after unilateral laser ventriculocordectomy</td>
<td>SZ Barakzai</td>
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**Friday, 14 July (cont’d)**

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<tr>
<td>17:15-17:30</td>
<td>Review on surgical paranasal sinus cyst treatments in the horse</td>
<td>D. Verwilghen</td>
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<tr>
<td>17:30-17:45</td>
<td><em>In vitro</em> evaluation of the forwarder and Aberdeen knots for continuous suture patterns with large gauge suture</td>
<td>A. Gillen</td>
</tr>
<tr>
<td>17:45-18:00</td>
<td>Effect of three types of horseshoes and unshod feet on selected kinematic variables measured by an extremity mounted inertial measurement unit sensor system in sound horses at the trot under conditions of treadmill and geotextile surface exercise</td>
<td>AM Cruz</td>
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**Residents’ Lecture**

**TINTO & MOORFOOT**

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<tr>
<td>18:15-19:00</td>
<td>Basics of study design</td>
<td>R. Reardon</td>
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**ECVS Annual Business Meeting (mandatory for ECVS Diplomates)**

**PENTLAND AUDITORIUM**

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<tr>
<td>18:10-19:30</td>
<td>ECVS Annual Business Meeting</td>
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**FREE EVENING**
Saturday, 15 July

**Short Communications - Orthopaedic**

**TINTO & MOORFOOT**

Chair: S. Taylor

08:30-08:45  **A novel ultrasonographic assisted technique for desmotomy of the palmar/plantar annular ligament in horses**  
P. Espinosa

08:45-09:00  **Aspiration, but not injection, decreases cultured equine mesenchymal stromal cell viability**  
JB Koenig

09:00-09:15  **Cone beam computed tomography (CBCT) for cross-sectional diagnostic imaging of the equine extremity in standing sedated horses**  
C. Koch

09:15-09:30  **A multi-centre study of synovial sepsis of the calcaneal bursae in horses treated by endoscopic lavage**  
CM Isgren

09:30-09:45  **Plantar osteochondral fragmentation (POF) in the metatarsophalangeal joints of French Standardbred horses: Clinical aspect and prognosis after arthroscopic removal**  
T. de Beauregard

09:45-10:00  **ACVS RESIDENT AWARD: Intramedullary, interlocking nail fixation of humeral fractures in 27 horses less than 1 year of age (1989-2013)**  
K. Glass

10:00-10:30  **COFFEE BREAK**

**Clinical Biomechanical relevance of surfaces and shoeing**

**KILSYTH**

Chair: W. Back

08:30-08:45  **Biomechanical effects of surfaces**  
L. Roepstorff

08:45-09:00  **Surfaces and the occurrence of orthopaedic lesions**  
L. Roepstorff

09:00-09:15  **Evidence-based shoeing in healthy feet: biomechanical considerations**  
M. Weishaupt

09:15-09:30  **Biomechanical effects of shoeing**  
M. Weishaupt

09:30-09:45  **Evidence-based shoeing for orthopaedic pathologies: biomechanical basics of therapeutic farriery**  
M. Oosterlinck

09:45-10:00  **Discussion**

10:00-10:30  **COFFEE BREAK**

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**Look outside the box:** The programme committee recommends today’s lecture „New concepts in bone regeneration“ in the small animal programme.  
(09:00-09:30, Pentland Auditorium)
Saturday, 15 July (cont’d)

**In-depth: The Thorax**

**TINTO & MOORFOOT**

**Chair:** DA Gorvy

10:30-10:50  
**50 shades of grey: Imaging the thorax**  
S. Puchalski

10:50-11:10  
**Thoracoscopic approaches, techniques and clinical indications**  
Y. Elce

11:10-11:30  
**Dealing with thoracic trauma including pneumothorax and thoracolumbar spine trauma**  
Y. Elce

11:30-11:45  
**Dealing with rib fractures in horses**  
Y. Elce

11:45-12:00  
**Surgical tracheal diseases and rib resection**  
T. Greet

12:00-12:15  
**Surgical heart treatment in horses: can it be done?**  
A. Martens

12:15-12:30  
**Discussion**

12:30-14:00  
**LUNCH BREAK**

**Look outside the box:** The programme committee recommends lectures in the *Pathology of PNS* and *Trauma of PNS* sessions in the small animal programme.  
(08:30-09:05 / 09:05-09:30 / 11:55-12:20 / 12:20-12:45, Fintry Auditorium)

**Lunch time sessions**

**TINTO & MOORFOOT**

13:00-14:00  
**Publishing in Veterinary Surgery: Updates and tips (Q&A session)**  
D. Griffon

As new editor in chief of *Veterinary Surgery*, Dominique Griffon has made it a priority to maintain strong lines of communication with contributors to the journal. A few changes have been made to the review process and format of the journal, which are relevant to the Diplomate and Residents.

13:15-14:15  
**Meet the Expert: Minimally invasive approaches: Tricks and pitfalls**  
F. David
In-depth: What about the Musculus Interosseus Medius?

TINTO & MOORFOOT

Chair: R. Smith

14:00-14:15  Clinical features and diagnosis of musculus interosseus medius injury  
S. Boys-Smith

14:15-14:35  Comparative imaging in the evaluation of musculus interosseus medius injury  
S. Puchalski

14:35-14:55  Surgical management of marginal tears of the suspensory ligament branches in Thoroughbred racehorses  
I. Wright

14:55-15:10  Neurectomy: technique, surgical considerations and complications  
T. Hughes

15:10-15:25  Conservative treatments for musculus interosseus medius injury  
E. Busschers

15:25-15:45  Critical review on outcomes of treatments for hind limb musculus interosseus medius (suspensory ligament) injury  
S. Taylor

15:45-16:00  Discussion

16:00-16:30  COFFEE BREAK

Poster Session

TINTO & MOORFOOT

Chair: D. Archer, D. Verwilghen

During Friday, 8 posters from the list below will be selected for presentation.

All authors should stand by their poster during the Friday morning and afternoon coffee breaks. The authors will be informed on Friday by email whether their poster has been selected for presentation. Additionally, these posters will be marked with an Accepted for presentation sticker.

For the poster presentation, authors should prepare 4 slides with the headings 1) title and objectives, 2 ) materials and methods, 3) results, and 4) discussion.
Comparison of anatomic distribution of topical medication in the upper respiratory tract after “throat spray” and oral administration in horses
O. Brandenberger

Successful surgical debridement of a cerebral Streptococcus equi equi abscess by parietal bone flap craniotomy of a 2-month old Warmblood foal.
B. Broux

Use of an illuminated single port ovoid trocar for ovariectomies in standing mares
C. Bussy

Standing repair of a proximal, incomplete, articular fracture of the third metatarsal bone
E. Cillan-Garcia

Effect of arthroscopic lavage and repeated intra-articular administration of antibiotic on synovial nucleated cell count, total protein and percentage of neutrophils in adult horses and foals with septic arthritis
M. Cousty

Standing laparoscopic abdominal lavage of 2 horses with suppurative peritonitis using a suction-irrigation device
N. Cribb

Hypotthermia prevention in long standing sedation procedures in horses
A. Florczyk

Penetrating foreign bodies in horses’ limbs : A retrospective case study
M. Gangl

Ethylenediaminetetraacetic acid (EDTA) anticoagulant affects the refractometric measurement of total protein concentration in equine synovial fluid
S. Hann

Laparoscopic implantation of tenckhoff catheter in horses
CA Hussni

Pneumatosis intestinalis due to strangulating small intestine lesions: 2 cases
M. Iglesias Garcia

Evaluation of the pharmacokinetics of Ceftazidime after regional limb perfusion in standing horses
G. Kelmer

Intestinal interleukin-7 expression during IschemiaReperfusion
R. Perrin

N. Moulin
Surgical repair of a chronic sinocutaneous fistula in a horse using inverted skin-periosteal flaps associated with levator labii superioris muscle transposition
L. Petrizzi

Ultrasonographic evaluation of umbilical structures of calves: a comparison between healthy calves and those affected by umbilical disorders
L. Petrizzi

Case Report: Intralesional injection of formalin for the treatment of a paranasal cyst in a horse
JM Rosser

Case Report: Surgical treatment of urolithiasis in a Bactrian camel
JM Rosser

Local anaesthetics but not morphine or magnesium sulphate are toxic for equine chondrocytes and synoviocytes in vitro.
LM Rubio-Martinez

Supraspinous ligament desmotomy to treat desmitis in 10 horses
D. Rutherford

Effects of MK-467 and hyoscine on cardiovascular suppression and intestinal hypomotility induced by detomidine in horses
HA Tapio

Ultrasonographic and clinical evaluation of three suture techniques of the equine linea alba
M. Verkade

Medial collateral ligament reconstruction of the equine metatarsophalangeal joint – a case report
M. Waselau

Closing Session - State of the Art - Jörg Auer Lecture

PENTLAND AUDITORIUM

17:45-18:30
Jörg Auer Lecture: Fighting the old enemy: Strategies for implant infection
H. Simpson

18:30-19:00
Awards and Closing Remarks
R. Smith

Farewell

NATIONAL MUSEUM OF SCOTLAND

20:00-02:00
Farewell dinner at the National Museum of Scotland