VOS 2018 PROGRAM

Saturday, March 10th – Registration and Welcome Reception

*Sponsored by VOS*

Salon A

7:00-9:00 PM  Reception and Wine and Cheese Reception

Program continues on next page
Sunday, March 11th – Evening Session
Orthopedics I
Sponsored by Sontec

Salon A
Moderator: A. Cross

3:30 PM  President’s Welcome and Foundation Message

3:45  3642: Clinical Application of the I-Loc Angle Stable Interlocking Nail in 100 Traumatic Fractures of the Humerus, Femur and Tibia  A. Fauron

4:00  3636: Percutaneous Tibial Fracture Reduction Using CT Imaging, Computer Modeling and 3D Printed Constructs  J. Davies

4:15  3616: Defining a Safe Entry Point for a Sacral Screw in Lateral Plating in Feline Iliac Fractures  P. Schmierer

4:30  3675: Effect of Bidirectional Insertion of External Skeletal Fixation Pins on Axial Pullout Strength in Canine Cadaveric Bone  J. Park

4:45-5:15  Break

5:15  SOTI: Citrate-Based Biomaterials and Their Applications in Regenerative Engineering  
Sponsored by New Generation Devices  R. Tran

5:30  3535: Use of a Veterinary Cuttable Plate in a Plate-Rod Construct for Repair of Diaphyseal Femoral Fractures in the Cat: 25 Cases  B. Vedrine

5:45  3648: Transarticular Fixation of a Failed Anatomic Repair Using an Imex ROM Hinge to Allow Early Return to Function  R. Elliott

6:00-7:00  Jacques Jenny Lecture - Radiographic Measurement of Skeletal Motion  
Sponsored by DePuy Synthes  S. Banks

7:00-8:30  Exhibitors Showcase  
Sponsored by VOS

Castle Peak Auditorium

7:10-8:00  Residents’ Session  
Sponsored by IMEX Veterinary, Inc  N. Kieves  S. Jones
Monday, March 12th – Morning Session
Orthopedics II
Sponsored by Aratana

Salon A
Moderator: J. Godwin

7:00  3670: A Retrospective Evaluation of Femoral Stem Subsidence in Patients Undergoing Cementless Total Hip Replacement  M. Mitchell
7:20  3628: Mechanical Analysis of Suture Attachment Methods in Toggle Suture Constructs  K. Kraska
7:35  3669: Evaluation of Cementless Femoral Stem Subsidence on Mediolateral Projection Radiographs  M. Burneko
7:50-8:15  Break
8:15  SOTI: Locoregional Blocks for Maxillofacial Surgery – Updates  H. Lobprise
     Sponsored by Aratana
8:30  3625: Fatigue Fracture of Co-Cr-Mo Femoral Stems after Canine Cemented Total Hip Replacement  C. Silveira
8:45  3562: Percutaneous Repair of a Ruptured Common Calcaneal Tendon in a Dog  M. Schroeder

Alpine Springs
9:30-3:30  Lab - Arthrex
Monday, March 12th – Morning Session
Equine Orthopedics I
Sponsored by Geosurgical

Castle Peak Auditorium
Moderator: J. García-López

7:00  3588: Morphovolumetric Analysis of the Equine Hoof  A. Kepler
7:20  3668: Mechanical and Microstructural Properties of Navicular Bones with a Range of Navicular Degeneration  E. Collar
7:35  3651: Correlation and Prognostic Value of Abnormalities on MRI and Navicular Bursoscopy in Horses with Foot Lameness  B. Bladon
7:50-8:15 Break
8:15  3534: Biomechanical Analysis of a Novel Cervical Stabilization Technique  A. Downey
8:30  Invited lecture – Principles of Fracture Repair  A. Ruggles
9:00  Discussion
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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>3:45</td>
<td>SOTI: Current Evidence for PRP Use in Dogs</td>
<td>S. Franklin</td>
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<tr>
<td>4:00</td>
<td>3599: Frequency of Normal Versus Support Trot in the Healthy German Shepherd Dog</td>
<td>M. Vitt</td>
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<td>4:15</td>
<td>3667: Heel Expansion and Deformation Vary with Horseshoe Nail Positions</td>
<td>V. Dahl</td>
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<td>4:30</td>
<td>3560: Retrospective Analysis of Prosthesis Use By Dogs with Partial Limbs</td>
<td>T. Wendland</td>
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<td>4:45</td>
<td>3627: Development of a Perceived Exertion Scale for Dogs Exercising on a Land Treadmill Using Selected Physiologic Parameters</td>
<td>K. Swanson</td>
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<td>5:00-5:15</td>
<td>Break</td>
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<tr>
<td>5:15</td>
<td>3589: The Effect of Routine Hoof Trimming on Regional Hoof Kinetics</td>
<td>F. Hung</td>
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<tr>
<td>5:45</td>
<td>3531: Postoperative Rehabilitation Protocols Following Canine Cranial Cruciate Ligament Repair: A Survey of Veterinary Surgeons</td>
<td>J. Eiermann</td>
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<tr>
<td>6:00-7:00</td>
<td>Jacques Jenny Lecture - Stifles and Knees</td>
<td>S. Banks</td>
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*Salon A
Moderator: K. Lin*
Monday, March 12th – Evening Session
Equine Orthopedics II
*Sponsored by VOS*

Castle Peak Auditorium
Moderator: J. García-López

4:00 PM  3663: Post-Natal Development of the Functional Specialization of the Equine Superficial Digital Flexor Tendon  P. Clegg

4:15  3626: A Preliminary Field Trial Evaluating the Efficacy of 4% Polyacrylamide Hydrogel in Horses with Osteoarthritis  S. McClure

4:30  3613: Clinical and Histologic Evaluation of Polyacrylamide Gel in the Normal Equine Metacarpal/Metatarsal-Phalangeal Joints  S. McClure

4:45  3665: Tenoscopic Treatment of Physeal “Spike” Remnants of the Caudal Radius in the Thoroughbred Racehorse  C. Schreiber

5:00-5:15  Break

5:15 – 6:00  Invited Lecture- Condylar Fractures in the Equine Athlete  A. Ruggles

6:00-7:00  Jacques Jenny Lecture - Stifles and Knees  S. Banks
*Sponsored by Sound Salon A*
Tuesday, March 13th – Morning Session
Orthopedics III
Sponsored by Veterinary Transplant Systems

Salon A
Moderator: W. Gordon-Evans

6:45 AM Past Presidents’ Breakfast benefitting the VOS Educational Foundation
Sponsored by VOS

7:00 3640: The Effects of Carprofen and Phycox in Dogs with Naturally Occurring Clinical Elbow Osteoarthritis: A Randomized, Double-Blinded, Multicenter Pilot Study  S. Martinez

7:20 3676: The Effectiveness of Marine Based Fatty Acid Compound (PCSO-524) Alone and Combined with Previcox in the Treatment of Canine Osteoarthritis  B. Beale

7:35 3568: Randomized Pilot Trial of the Effects of an Egg-Shell Membrane-Based Supplement (MovoflexTM) on Mobility and Serum Biomarkers of Inflammation in Dogs with Osteoarthritis  C. Muller

7:50-8:15 Break

8:15 3580: Synovial Fluid Cytokine Concentrations Are Influenced By Disease Etiology  M. Conzemius

8:30 3620: Computed Tomography Guided Lag Screw Placement for Treatment of Ununited Anconeal Process in 5 Dogs  K. Leonard

8:45 3563: Average Tibial Plateau Angle of 3,922 Stifles Undergoing Surgical Stabilization for Cranial Cruciate Ligament Rupture  E. Fox

9:00 3638: The Use of a Needle Arthroscopy for the Diagnosis of Shoulder and Elbow Related Lameness in Canine Patients  P. Chou
Tuesday, March 13th – Morning Session
Equine Orthopedics III
*Sponsored by VOS*

Castle Peak Auditorium
Moderator: M. Stewart

6:45 AM  Past Presidents’ Breakfast benefitting the VOS Educational Foundation
*Sponsored by VOS*

7:00  3646: Complication Rates Following Equine Elective Arthroscopy: Comparison of Inpatient vs Outpatient Surgery  M. Stewart

7:20  3637: Spontaneous Osteonecrosis in a Thoroughbred Racehorse  C. Sandow

7:35  3624: Traumatic Ossifying Fasciitis Presenting as a Large Flank Mass in a Standardbred Gelding  M. Stewart

7:50-8:15  Break

8:15-9:00  Invited Lecture- Simple and Complicated Flexural Limb Deformities in Foals  J. Watkins

9:00  Discussion
Tuesday, March 13th – Evening Session
Small Animal Imaging Rounds
Sponsored by Epica

Salon A
Moderator: R. Pollard

4:00-6:00 Small Animal Imaging Rounds
R. Pollard
S. Nemanic
R. King

4:45-5:15 Break

6:00-7:00 Jacques Jenny Lecture - Robots in Medicine and Imaging
Sponsored by AO Vet
S. Banks

Tuesday, March 13th – Evening Session
Equine Orthopedics IV
Sponsored by VOS

Castle Peak Auditorium
Moderator: M. Stewart

4:00 3673: Clodronate Improves Lameness in Horses Independent of Anti Resorptive Effects in-Vivo
A. Watts

4:15 3596: Combination Therapy is Superior to Conventional or Laser Therapy Alone for Equine Tendon and Ligament Injuries: A Comparison of 61 Clinical Cases
A. Bathe

4:30 3657: Correlations Between Biomechanical and Acoustoelastographic Variables in the Equine DDFT
M. Berger

4:45-5:15 Break

5:15 Invited lecture – Diagnosis and Treatment of Radius Fractures in Equine J. Watkins

6:00 Jacques Jenny Lecture - Robots in Medicine and Imaging
Sponsored by AO Vet
Salon A
S. Banks
**Wednesday, March 14th – Morning Session**

**Complications and Corrections**

*Sponsored by Vet 3D*

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**Salon A**

**Moderator:** R. Guillou

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>7:00</td>
<td>Invited lecture: Complications and Corrections During Fracture Management in Foals and Equine Adults</td>
<td>A. Ruggles</td>
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<tr>
<td>7:30</td>
<td>Invited lecture: “Kneed”</td>
<td>A. Cross</td>
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<tr>
<td>8:00 – 8:15</td>
<td>Break</td>
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<td>8:15</td>
<td>Invited lecture: Orthopedic Site Infection in Equine</td>
<td>J. Watkins</td>
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<td>8:45</td>
<td>Invited lecture: Decision Making in Revision Surgery</td>
<td>L. Guiot</td>
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**Wednesday, March 14th – Day**

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<tr>
<th>Time</th>
<th>Event Description</th>
<th>Sponsor</th>
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<tbody>
<tr>
<td>10:30</td>
<td>Ski Race</td>
<td><em>Sponsored by BioMedtrix</em></td>
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<tr>
<td>12:00</td>
<td>Mountain Picnic</td>
<td><em>Sponsored by Everost</em></td>
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### Wednesday, March 14th – Evening Session

**Regenerative Medicine**

*Sponsored by Arthrex*

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**Salon A**

**Moderator: N. Kieves**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</table>
| 4:00  | 3582: A Refined and Clinically More Relevant, Preclinical Osteochondral Defect Model in Rabbits  
T. Schmid |
| 4:15  | 3611: The Effects of Autologous Mesenchymal Stem Cell Therapy on Elbow Osteoarthritis in Dogs: A Pilot Study  
D. McCarthy |
| 4:30  | 3594: Clinical Efficacy of Platelet Rich Plasma for the Treatment of Elbow Osteoarthritis in Twenty Dogs  
B. Carr |
| 4:45  | 3656: Surface Electromyography Repeatability of the Vastus Lateralis, Biceps Femoris and Gastrocnemius Muscles at a Trot in Normal Dogs: A Pilot Study  
C. Jones |
| 5:00-5:15 | Break                                                                                   |
| 5:15  | 3633: Canine Mesenchymal Stem Cell Mediated Bone Regeneration Is Enhanced in the Presence of Sub-Therapeutic Concentrations of rhBMP-2 in a Murine Critical-Sized Calvarial Defect  
B. Saunders |
| 5:30  | 3614: Differential BMP Expression and Activities Impact the Osteogenic Capacities of Equine Bone Marrow and Adipose Stem Cells  
M. Stewart |
| 5:45  | 3671: Double-Blinded, Placebo Controlled Study Evaluating the Safety and Efficacy of Intravenous Allogeneic Adipose Stromal Cell Therapy for Canine Osteoarthritis  
K. Kiefer |
| 6:00 – 7:00 | Jacques Jenny Lecture - Class-sourcing your research  
*Sponsored by: Veterinary Orthopedic Implants*  
S. Banks |
| 7:10-8:30 | Poster Session – Alpine Springs |
| 8:30-9:30 | Foundation Night – Alpine Springs  
*Sponsored by Partners in Veterinary Therapeutics* |
| 7:00-10:00 | Foundation Night Kid’s Party – Cathedral Peak  
*Sponsored by VOS* |
Thursday, March 15th – Morning Session

Bloomberg Awards

*Sponsored by Boehringer-Ingelheim, New Generation Devices, VOS Past Presidents, Orthomed, AO Vet, Securos and Arthrex*

Salon A
Moderator: R. Guillou

7:00 3623: An Objective Assessment of the Effect of Desensitizing the Median Nerve on Lameness Originating from the Cubital Joint  
      L. McGlinchey

7:20 3639: Evaluation of the Short-Term Effects of Intra-Articular Administration of Platelet-Rich Plasma in Horses with Experimentally Induced Synovitis  
      C. Sandow

7:35 3615: Equine Mesenchymal Stem Cells Possess Antimicrobial Properties  
      L. Pezzanite

7:50-8:15 Break

8:15 3678: Intramedullary, Interlocking Nail Fixation Alone or in Combination with a Cranial Bone Plate to Repair Diaphyseal Femur Fractures in 16 Foals Weighing Less than 250kg (1993-2016)  
      K. Beste

8:30 3587: Effect of Proximal Abducting Ulnar Osteotomy (PAUL) on Thoracic Limb Alignment in a Canine Ex Vivo Simulated Weight-Bearing Model  
      K. Corriveau

8:45 3609: Biomechanical Comparison of Three Lumbosacral Stabilizing Implant Devices in Canine Cadavers  
      A. Simon

9:00 3581: Development of a 3D Type I Collagen Assay to Evaluate Chondrogenesis of Canine Bone Marrow-Derived Mesenchymal Stem Cells  
      M. MacIver

Thursday, March 15th – Evening

4:00-5:30 Business Meeting  
          Castle Peak Auditorium

6:30-7:30 No Host Cocktail  
          Salon C, D, E

7:35 Banquet – *Sponsored by VOS*  
          Awards and Entertainment  
          Salon A, B
### Friday, March 16th – Morning Session
**Orthopedics IV**  
*Sponsored by Intrauma*

#### Salon A
**Moderator: C. Tano**

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<tr>
<th>Time</th>
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<th>Title</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>7:00</td>
<td>3547</td>
<td>Evidence-Based Protocol Changes to Reduce Implant-Associated Infection Rate after Tibial Plateau Leveling Osteotomy in Dogs</td>
<td>S. L. Stine</td>
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<tr>
<td>7:20</td>
<td>3532</td>
<td>Stabilization with a Ventral Screw and Polymethylmethacrylate Construct As a Method of Surgical Fixation for Transverse Vertebral Body Fractures of C2 in Three Dogs</td>
<td>S. L. Stine</td>
</tr>
<tr>
<td>7:35</td>
<td>3590</td>
<td>Infection Rate Following TPLO Procedure with and without a Course of Postoperative Antibiotics: A Retrospective Study of 308 Dogs</td>
<td>A. C. Clark</td>
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<tr>
<td>7:50-8:15</td>
<td>Break</td>
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<tr>
<td>8:15</td>
<td>3602</td>
<td>Biomechanical Comparison of Knotted and Knotless Stabilization Techniques of the Medial Collateral Ligament in Cats - a Cadaveric Study</td>
<td>S. C. Knell</td>
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<tr>
<td>8:30</td>
<td>3564</td>
<td>Retrospective Evaluation of Intraarticular Proximal Jig Pin Placement with Tibial Plateau Leveling Osteotomy</td>
<td>J. V. Cavalcanti</td>
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<tr>
<td>8:45</td>
<td>3605</td>
<td>Biomechanical Rationale and Rational Planning for TPLO</td>
<td>S. Tepic</td>
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Friday, March 16th – Evening Session
Orthopedics V
Sponsored by Veterinary Instrumentation

Salon A
Moderator: J. Suber

4:00  3548: Comparison of Three Crural Fascia Repair Techniques for Tibial Tuberosity Advancement Surgery  J. E. Giangarra

4:15  3617: Biomechanical Comparison of ALPS, Fixin, LCP and DCP Plates in a Feline Ilial Fracture Model  P. Schmierer

4:30  3607: Combined Fatigue and Wear Testing of Anchored Sutures  S. J. Bresina

4:45  3584: Measuring Distance Traveled with an Activity Monitor in Normal Dogs Participating in a 5K Race  M. Conzemius

5:00-5:15  Break


5:45  3652: Assessment of Canine Cranial Radial Cortex Torsion Profile Using Computed Tomography  B. Abrams