

**Veterinary Orthopedic Society Program  
Steamboat, Colorado February 28- March 7, 2009**

**Sunday March 1, 2009 - Evening Session**

**Moderator: James Cook – President**

**Jacques Jenny Lecture Sponsored by Synthes Vet**

<b>3:30</b>	<b>Welcome and Dedication to Dr. Brinker</b>	<b>James Cook</b>	
4:00 - 4:15	Practical Study Design	J. Cook	
4:15 - 4:20	Discussion		
4:20 - 4:40	Real Life Data Interpretation	R Evans	
4:40 - 4:45	Discussion		
<b>4:45 - 5:15</b>	<b><i>Break for Refreshments</i></b>		
5:15 - 5:25	Effect of Skin Movement Over the Stifle Joint on Kinematics Analysis of the Hind Limb during Trot on a Treadmill in Dogs	S Kim	1
5:25 - 5:30	Discussion		
5:30 - 5:40	In Vitro Biomechanical Evaluation of the Canine CrCL Deficient Stifle with Varying Angles of Stifle Joint Flexion and Axial Loads after TTA	M Kowaleski	2
5:40 - 5:45	Discussion		
5:45 - 6:00	Jacques Jenny Lectureship and Speaker Introduction	J Cook	
<b>6:00 - 7:00</b>	<b>JJ Lecture Dr. Kurt Spindler – <i>Evidence Based Medicine in Orthopaedics – Why and How?</i></b>		

**7:00- 8:30 pm - Exhibitors Showcase – Sponsored by the VOS**

**Monday March 2, 2009 - Morning Session**  
**Moderator: Darien Lawrence - Awards Chair**

**6:45 - 9:00 Presidents' Breakfast Session sponsored by the VOS Educational Foundation**

<b>7:00</b>	<b>VOS Foundation: A Year in Review</b>	<b>Mike Conzemius</b>	
<b>7:20</b>		<b>Foundation Chair</b>	
7:20 -	Discussion		
7:30			
7:30 -	In-Vitro Amine-Based Transfection Augmentor Enhancement of	D Reynolds	3
7:40	BMP-2 Gene Delivery to Canine Bone Marrow-Derived MSCs		
7:40 -	Discussion		
7:45			
<b>7:45 -</b>	<b><i>Break for Refreshments</i></b>		
<b>8:15</b>			
8:15 -	State of the Industry- <b>Merial</b>		
8:25			
8:25 -	Discussion		
8:30			
8:30 -	Osteoblastic Differentiation of Equine Bone Marrow MSCs	R Carpenter	4
8:40	with BMP-2 and 7 Genetic Modifications +/- Dexamethasone		
8:40 -	Discussion		
8:45			
8:45 -	In-Vitro Comparison of Cortical Bone Temperature Generation	K Bubeck	5
8:55	between Sequential Drilling and a Designed Step Drill in Equine Bone		
8:55 -	Discussion		
9:00			

**Monday March 2, 2009 - Evening Session**  
**Moderator: Liz Pluhar - Assistant Program Chair**

**Jacques Jenny Lecture Sponsored by Synthes Vet**

4:00 - Case Report- Angular Limb Deformity Correction	D. Lewis	
4:10 - Discussion		
4:15		
4:15 - Treatment of Angular Limb Deformities in Foals Using Radial	A Bathe	6
4:25 Extracorporeal Shockwave Therapy: a Prospective, Controlled Study		
4:25 - Discussion		
4:30		
4:30 - Determination of Thoracic Limb Mechanical Axis in the Dog:	C Savori	7
4:40 a Cadaveric Radiographic Study in the Frontal Plane		
4:40 - Discussion		
4:45		
<b>4:45 - Break for Refreshments</b>		
<b>5:15</b>		
5:15 - Clinical Experience with Stereotactic Radiosurgery for	S Ryan	8
5:25 Extremity Osteosarcoma		
5:25 - Discussion		
5:30		
5:30 - Arthrodesis of the Proximal Interphalangeal Joint	K Amend	9
5:40 without Removal of the Articular Cartilage		
5:40 - Discussion		
5:45		
5:45 - Feline Carpal Arthrodesis: Long Term Outcome	I Calvo	10
5:55		
5:55 - Discussion		
6:00		
6:00 - <b>JJ Lecture</b>		
7:00 <b>Dr. Kurt Spindler - Multicenter Clinical Studies in Orthopaedics – Why and How?</b>		



**Tuesday March 3, 2009 - Morning Session**  
**Moderator: Allison Stewart - Program Chair**

7:00	Case Report – Equine Arthropathy	O. Lepage	
7:10 - 7:15	Discussion		
7:15 - 7:25	Case Series: a Review of 3 Cases of Fungal Arthritis Post Intraarticular Injection with Triamcinolone and Hyaluronic Acid	J Eyles	11
7:25 - 7:30	Discussion		
7:30 - 7:40	Intraarticular Treatment of Osteoarthritis with Polyglycan Assessed Using An Equine Experimental Model	D Frisbie	12
7:40 - 7:45	Discussion		
<b>7:45 - 8:15</b>	<b><i>Break for Refreshments</i></b>		
8:15 - 8:25	Synthetic Osteochondral Transplant for Treatment of OCD of the Canine Elbow, Stifle, and Shoulder with Arthroscopic and MRI Outcome Measures	N Fitzpatrick	13
8:25 - 8:30	Discussion		
8:30 - 8:40	Intraarticular Hyaluronic Acid Increases Weight Bearing in Dogs with Elbow OA	E Battjes	14
8:40 - 8:45	Discussion		
8:45 - 8:55	Lymphoplasmacytic synovitis in dogs with naturally occurring CrCL deficiency: cytologic, histologic, radiographic, and clinical analysis	J Erne	15
8:55 - 9:00	Discussion		



**Tuesday March 3, 2009 - Evening Session**

**Moderator: Charlie DeCamp - Immediate Past President**

**Jacques Jenny Lecture Sponsored by Synthes Vet**

4:00 - Case Report – Canine Spine Surgery	A Cross	
4:10 - Discussion		
4:15		
4:15 - Stabilization of the Canine Spine for Cervical Spondylomyelopathy	A Fauber	16
4:25 Using Unicortical Screws and PMMA in Combination with a Cortical Ring Allograft		
4:25 - Discussion		
4:30		
4:30 - Lumbosacral Degenerative Stenosis in the Dog: The Results of	Y Beosier	17
4:40 Epidural Infiltration with Methylprednisolone Acetate: a Retrospective Study		
4:40 - Discussion		
4:45		
<b>4:45 - Break for Refreshments</b>		
<b>5:15</b>		
5:15 - Intervertebral Biomechanics of Locking Compression Plate	K Agnello	18
5:25 Monocortical Fixation of the Canine Cervial Spine		
5:10 - Discussion		
5:15		
5:30 - An in Vitro Analysis of Temperatures and Insertion Torques of	T Gudehus	19
5:40 Hydroxyapatite Coated and Uncoated 5.5 Mm AO Cortical Screws in Equine Bones		
5:40 - Discussion		
5:45		
5:45 - A Lateral Approach for the Lag Screw Repair of Spiralling Third	A Bathe	20
5:55 Metacarpal or Metatarsal Medial Condylar Fractures: 9 Cases		
5:55 - Discussion		
6:00		
6:00 - <b>JJ Lecture</b>		
7:00 <b>Dr. Kurt Spindler - ACL problems in humans and dogs – Similarities and Differences</b>		



**Wednesday March 4, 2009 - Morning Session**

**Moderator: Allison Stewart - Program Chair**

**Mark S. Bloomberg Memorial Award Winners - Sponsored by Arthrex Vet Systems, IMEX Veterinary Inc., Innovative Animal Products, KYON, New Generation Devices, and Merial. Merial has generously endowed a Mark S. Bloomberg Memorial Award.**

7:00 - Follow-up Arthroscopic Evaluation of Canine Stifles Having	A Aman	21
7:10 Undergone Tibial Plateau Leveling Osteotomy with and without Meniscal Release		
7:10 - Discussion		
7:15		
7:15 - Anti-Tumor Effects of Radiation Therapy, Carboplatin and	A Coomer	22
7:25 Combretastatin-A4 Phosphate Therapies in a Mouse Model of Xenografted Osteosarcoma		
7:25 - Discussion		
7:30		
7:30 - Tendon Evaluation using MRI and Ultrasound	W Karlin	23
7:40		
7:40 - Discussion		
7:45		
<b>7:45 - Break for Refreshments</b>		
<b>8:00</b>		
7:55 - Serum Cortisol Concentration and Force Plate Analysis in the	J Cooper	24
8:00 Assessment of Pain Associated with Sodium Urate-Induced Acute Synovitis		
8:00 - Discussion		
8:15		
8:15 - In-Vitro Comparison of Two Centrally Threaded, Positive-Profile	K Bubeck	25
8:25 Transfixation Pin Designs for Use in the Equine Third Metacarpal Bone		
8:25 - Discussion		
8:30		
8:30 - Kinematic Evaluation of Compensatory Movements of	D Hicks	26
8:40 the Head and Pelvis Associated with Pelvic Limb Lameness in Dogs		
8:40 - Discussion		
8:45		
8:45 - Comparison of Function and Radiographic OA in dogs with Naturally	K Au	27
8:55 Occurring CrCL Injury receiving Physical TX and TPLO or Lateral Fabellar Suture		
8:55 - Discussion		
9:00		

**10:30 am -Ski Race Sponsored by Biomedtrix, LLC**

**12:00 pm -Mountain Picnic**

**Wednesday March 4, 2009 - Evening Session**  
**Moderator: Ron Kettenacker - Recorder**

**Jacques Jenny Lecture Sponsored by Synthes Vet**

4:00 - Case Report – Influence of Limb Alignment on Stifle Pathology	D Fox	
4:10		
4:10 - Discussion		
4:15		
4:15 - The Effects of Tension on Contact Mechanics of the Lateral Stifle	C Tonks	28
4:25	Compartment and Tension Optimization in Tightrope and Lateral Suture Stabilization	
4:25 - Discussion		
4:30		
4:30 - The Effect of Tibial Plateau Leveling Osteotomy on Patellar	K Drygas	29
4:40	Tendon Angle: A Cadaveric Radiographic Study	
4:40 - Discussion		
4:45		
<b>4:45 - Break for Refreshments</b>		
<b>5:00</b>		
5:00 - Outcomes Following Removal of Infected TPLO Implants	R Savicky	30
5:10		
5:10 - Discussion		
5:15		
5:15 - Comparison of Healing of the Osteotomy Gap after TTA with and	T Guerrero	31
5:25	without the Use of Autogenous Cancellous Bone Graft	
5:25 - Discussion		
5:30		
5:30 - Comparison Between a Novel Bovine Xenograft and An Autogenous	A Worth	32
5:40	Cancellous Bone Graft, in the TTA Procedure	
5:40 - Discussion		
5:45		
5:45 - TTA for Treatment of CrCL Injury in 193 Consecutive Surgeries:	E Steinberg	33
5:55	Complications and Owner Satisfaction	
5:55 - Discussion		
6:00		
6:00 - <b>JJ Lecture</b>		
7:00	<b>Dr. Kurt Spindler - Sports Medicine in the Elite Athlete</b>	

**7:00 - 8:30 pm Poster Session- Sponsored by Merial**

**8:30 – 10:00 pm Comedy Night - Sponsored by Biomedtrix, LLC and Orthomed (UK), LTD**

## Thursday March 5, 2009 - Morning Session

Moderator: Susan Schaefer - Advertising/Sponsor Chair

7:00	The Contact Mechanics of Simulated Meniscal Tears	K Thieman	34
7:10	in Cadaveric Dog Stifles		
7:10 -	Discussion		
7:15			
7:15 -	Tibiofemoral Contact Mechanics and Medial Meniscal Strain after	A Pozzi	35
7:25	Serial Meniscectomies in the Dog Stifle		
7:25 -	Discussion		
7:30			
7:30 -	The Contact Mechanics of Meniscal Repairs and Partial Meniscectomy	K Thieman	36
7:40	as Treatment for Simulated Bucket Handle Tears in the Stifle of Dogs		
7:40 -	Discussion		
7:45			
7:45 -	<i>Break for Refreshments</i>		
8:00			
8:00 -	Accuracy of Low-Field MRI for Detection of Histopathologic Meniscal	T Harper	37
8:10	Degeneration in Dogs with Naturally Occurring CrCL Insufficiency		
8:10 -	Discussion		
8:15			
8:15 -	Optical Coherence Tomography for Diagnosing Meniscal Pathology	A Pozzi	38
8:25	in Dogs: a Pilot Study		
8:25 -	Discussion		
8:30			
8:30 -	Distraction of the Medial Compartment of the Canine Stifle Joint for	P Winkels	39
8:40	Precise Evaluation of Meniscal Integrity		
8:40 -	Discussion		
8:45			
8:45 -	Effect of Duration and Extent of CrCL Pathology on Medial Meniscal	A Jandi	40
8:55	Damage – Prospective Study of 917 Stifle Joints Surgically Treated with TPLO		
8:55 -	Discussion		
9:00			

## Thursday March 5 - Evening

**4:00 - 5:30 PM**      **Business Meeting**

**6:30 - 7:30 PM**      **No Host Cocktails**

**7:30 - 11:00 PM**      **Banquet/Awards/Entertainment Sponsored by VOS.**

**Friday March 6, 2009 - Morning Session**  
**Moderators: Jimi Cook, Cristi Cook and Russ Tucker**

**Radiology Rounds, Sponsored by**

7:00 - Computed Tomographic (CT) Features of Elbow OCD Compared 7:10 with Radiography and Arthroscopy	I Gielen	41
7:10 - Discussion 7:15		
7:15 - Minimally Invasive Arthroscopic Removal of Ununited 7:25 Anconeal Process	C GruBendorf	42
7:25 - Discussion 7:30		
7:00 - Biceps Ulnar Release Procedure for Treatment of Medial 7:45 Coronoid Disease in 49 Elbows	N Fitzpatrick	43
<b>7:45 - Break for Refreshments</b> <b>8:00</b>		
8:00 - Radiology Rounds		
Radiology Rounds		
Radiology Rounds 9:00		

**Friday, March 6 - Evening Session**  
**Moderator: Allison Stewart - Program Chair**

4:00 - Case Report – Equine Tendonopathy	T Lescun	
4:10		
4:10 - Discussion		
4:15		
4:15 - Effect of Tendon-Derived Progenitor Cells on a Collagenase-Induced Model of Tendinitis in Horses	S Durgam	44
4:25		
4:25 - Discussion		
4:30		
4:30 - TGF-B1 and Microtopographical Cues Promote Expression of the Tenogenic Marker Genes and Tenocyte Alignment	E Caporali	45
4:40		
4:40 - Discussion		
4:45		
<b>4:45 - Break for Refreshments</b>		
<b>5:00</b>		
5:00 - Comparison of Primary Osteoarthritis of the Hip with the Secondary Osteoarthritis of Canine Hip Dysplasia	G Smith	46
5:10		
5:10 - Discussion		
5:15		
5:15 - Canine Hip Dysplasia Screening: Precision and Predictive Accuracy of the Australian Hip Scoring Method	G Karbe	47
5:25		
5:25 - Discussion		
5:30		
5:30 - Frequency, Predisposing Factors, and Mode of Failure with a Toggle, Extracapsular Augmentation, or Both Procedures for Coxofemoral Luxations: 53 Cases	P Glover	48
5:40		
5:40 - Discussion		
5:45		
5:45 - Treatment of Caudal Mandibular Fracture and Temporomandibular Joint Fracture/Luxation, Using a Bi-Gnathic Encircling and Retaining Device	I Nicholson	49
5:55		
5:55 - Discussion		
6:00		
<b>6:00 - Meeting Adjourns</b>		