




AO VET NA Course—Principles in Small Animal Fracture Management

 November 2, 2022 - November 5, 2022
Glendale, Arizona, USA

The **AO VET Course - Principles in Small Animal Fracture**

Management is designed to provide participants with a basic, fundamental knowledge of bone healing and how it can be favorably influenced through internal fixation of fractures. The scientific principles of fracture repair and their practical application to the clinical situation are presented in lectures and hands-on laboratory sessions. Techniques that are critical to a successful surgical outcome, such as soft tissue handling and bone grafting, are discussed as well as the problems of non-unions, infections and technical errors. There will be breakout sessions (Small Group Discussions / Firesides) which supplement the lecture topics which focus on fracture cases and will further examine the importance of preoperative planning and other aspects of the clinical decision-making process in small animal surgery. The total patient is considered in terms of pre and post-operative care and anesthetic management. Participants should leave this course with the information and experience necessary to apply these principles and techniques to commonly encountered fractures in small animals.



Target Audience:

This course is suitable for any veterinary surgeon with an interest in managing fractures in small animals including veterinary surgery residents, interns, veterinary graduates at the start of their career, and practicing veterinary surgeons with some surgical experience.

Event Summary

Tuition:

Level Name: Participant - Veterinary
Pricing Tier: Attending
Tuition: \$1,200.00

Level Name: Participant - Veterinary
Pricing Tier: Resident
Tuition: \$950.00

Course Prerequisite(s):

No Prerequisites

Venue:

Renaissance Phoenix Glendale
Hotel
495 W Coyotes Blvd
Glendale, Arizona, USA
Phone Number:

Language(s):

English

Directly Provided by:



Professional Level Prerequisite(s):

No Prerequisites

CME

Continuing Education Credit: 24.25

- AO North America is a Registry of Approved Continuing Education (RACE) Provider (Number 244).

The Continuing Medical Education (CME) mission of AO North America (AONA®) is to provide comprehensive multidisciplinary needs based education to surgeons, fellows, and residents in the specialties of orthopedic, hand, craniomaxillofacial, spine, neurosurgery, and veterinary surgery in the areas of trauma (i.e., operative reduction and fixation), degenerative disorders, deformities, tumors, and reconstruction.

Expected results of AONA's CME activities for surgeons, fellows, and residents are to:

- Increase their knowledge base and surgical skill level
- Improve competence by applying advances of knowledge in patient care in the areas of trauma, degenerative disorders, deformities, tumors, and reconstructive surgical techniques
- Address practice performance gaps by improving management of aspects of traumatic injuries and musculoskeletal disorders (i.e., pre-operative planning to post-operative care)

Learning Objectives

Upon completion, participants should be able to:

- Recognize and apply AO Principles to small animal fracture management
- Define indications for internal fixation and the criteria for implant selection
- Identify and select appropriate techniques to problems such as nonunions, infections and technical errors that are critical for successful outcomes
- Discuss the importance of preoperative planning and other aspects of the clinical decision-making process to small animal surgery

Faculty



McLaughlin, Ronald - Chairperson

DVM, DVSc, DACVS
Professor of Surgery
Associate Dean for Administration
College of Veterinary Medicine
Mississippi State University
Mississippi State, Mississippi

Dr. Ron McLaughlin earned DVM degree from the University of Missouri in 1985 and a DVSc degree from the Ontario Veterinary College in 1991. He became a Diplomate of the American College of Veterinary Surgeons in 1992. He is currently the Associate Dean for Administration and Professor of Surgery at the College of Veterinary Medicine, Mississippi State University. Over the past 18 year he has served in numerous leadership roles at the College, including Head of the Department of Clinical Sciences, Director of the Animal Health Center, Hospital Chief-of-Staff, Director of Special Operations, Director of the Veterinary Medical Technology Program, and Chief of Surgery. Dr. McLaughlin has served on the American College of Veterinary Surgeons' Board of Regents, the Veterinary Orthopedic Society's Board of Directors, the AO North American Veterinary Trauma Education Committee, the AO Foundation Research Commission, and as President of the American Association of Veterinary Clinicians. He has received the Dean's Pegasus Award for Research/Creative Activity and the Carl J. Norden Distinguished Teacher Award at the College of Veterinary Medicine.



Marcellin-Little, Denis - Co-Chairperson

DEDV, DACVS, DACVSMR, DECVS
Professor
Department of Surgical and Radiological Sciences
School of Veterinary Medicine
University of California, Davis
Davis, California

Dr. Denis Marcellin-Little is a Diplomate of the American College of Veterinary Surgeons and a charter Diplomate of the American College of Veterinary Sports Medicine and Rehabilitation. Dr. Marcellin-Little specializes in orthopedic surgery. He is professor and service chief of small animal orthopedic surgery at the University of California, Davis. Dr. Marcellin-Little graduated from the French veterinary school of Toulouse, France in 1988. He did an internship at Hollywood Animal Hospital in Hollywood, Florida, followed by a small animal surgery residency at North Carolina State University, where he was on the faculty from 1994 to 2017. He joined UC Davis in 2017. Dr. Marcellin-Little's surgical interests include total joint replacement and the management of limb deformities. His research interests include the medical and surgical management of severe joint disease and limb deformities. Dr. Marcellin-Little has completed all three phases of the faculty development program, Faculty education, Chair education and Leadership education programs. Dr. Marcellin-Little currently sits on the Board of Directors of AO North America.



Perry, Karen - Evaluator

BVMS, CertSAS, DECVS, MSc, FHEA, MRCVS
Chief of Small Animal Surgery
Associate Professor in Small Animal Orthopedics
Veterinary Medical Center
Michigan State University
East Lansing, Michigan

Karen Perry graduated from The Royal (Dick) School of Veterinary Studies, Edinburgh in 2005. After a short period in mixed practice and an internship in small animal orthopedics Dr. Perry returned to the R(D)SVS to complete a residency in small animal surgery from 2007 to 2010. Following achievement of ECVS status in 2011, Dr. Perry joined the Royal Veterinary College (RVC), London as a lecturer in small animal orthopedics. During her tenure at the RVC, Dr. Perry completed a postgraduate certificate in veterinary education and became a Fellow of the Higher Education Academy. After four years at the RVC Dr. Perry moved to Michigan State University where she is currently a Tenured Associate Professor in Small Animal Orthopedics and Section Head of Small Animal Surgery. Dr. Perry's passion for veterinary education led her to pursue further qualifications in this ever-expanding field. In 2019, whilst at MSU, Dr. Perry completed her Masters of Science in Veterinary Education, the thesis of which focused on the importance of feedback during veterinary residency programs. Due to her knowledge in education, Dr. Perry was elected to serve on the AOVET NA education committee. Dr. Perry has published widely in the veterinary literature with her main research interests being feline orthopedics, traumatology and the correction of limb deformities associated with patellar luxation. Dr. Perry, an International AO Faculty, created the first AO Master Course in Feline Orthopedics and has presented her work throughout the world including in Colombia, Brazil, Russia, Poland and the UK. Dr. Perry has an expanding interest in the use of social media to enhance professional networking, education and patient care and acts as chair of the AONA social media taskforce. She has completed the Social for Health Care Certification from the Mayo Clinic and Hootsuite and is currently enrolled in a Social Media Professional Certificate.



Budsberg, Steven - Lecturer

DVM, MS, DACVS
Professor Emeritus
Department of Small Animal Medicine & Surgery
Department of Physiology and Pharmacology
College of Veterinary Medicine
University of Georgia
Athens, Georgia

Dr. Steve Budsberg received his DVM from Washington State University in 1983. He completed an internship at Angell Memorial in Boston and then did his residency in Small Animal Surgery at Michigan State University in 1987. He is board-certified by the American College of Veterinary Surgery. Dr. Budsberg spent time at Louisiana State University before joining the faculty at the University of Georgia. Currently, Dr. Budsberg is a Professor Emeritus in the Department of Small Animal Medicine and Surgery.

**Chou, Po-Yen - Lecturer**

BVM, MS, DACVS
Clinical Associate Professor
Department of Clinical Surgical & Radiological Sciences
School of Veterinary Medicine
University of California - Davis
Davis, California

Born and raised in Taiwan, Dr. Chou earned his veterinary degree from National Taiwan University. He stayed at National Taiwan University after graduation, where he completed a combined master's degree and small animal surgery residency from 2004 to 2008. In 2009, Dr. Chou completed a small animal surgery fellowship at Michigan State University, and his rotating internship and small animal surgical residency in 2015 at Atlantic Veterinary College, University of Prince Edward Island in Canada. Dr. Chou is board certified as a Diplomat of the American College of Veterinary Surgeons. He is currently a Clinical Associate Professor in Small Animal Orthopedic Surgery at the University of California Davis and enjoys educating future veterinarians and veterinary surgeons. Dr. Chou's clinical areas of interest are arthroscopy surgery, minimally invasive fracture repair, surgical site infection prevention, and management.

**Filliquist, Barbro - Lecturer**

DVM, DACVS, DECVS
Assistant Professor
Orthopedic Surgery
University of California - Davis
Davis, California

Dr. Filliquist received her DVM from UC Davis School of Veterinary Medicine in 2006. She completed an internship at the University of Pennsylvania, Philadelphia 2006-2007 and her residency at UC Davis School of Veterinary Medicine from 2007-2010. Following completion of the residency, she spent 7 years in private practice and during 5 of those years, she practiced in Sweden. Dr. Filliquist has been at University of California, Davis School of Veterinary Medicine since 2017. She is a Diplomate of the American and European Colleges of Veterinary Surgeons.

**Guiot, Laurent - Lecturer**

DVM, DACVS, DECVS
Orthopedic Surgeon
ACCESS Bone & Joint Center
ACCESS Specialty Animal Hospital - Los Angeles
Los Angeles, California

Dr. Laurent Guiot is a world-class orthopedic surgeon with a passion for excellence. He obtained his degree in veterinary medicine from the University of Liege (Belgium) in 2004 and completed a general internship in small animal medicine and surgery at the same institution. Laurent then worked for one year in Paris where he was in charge of the general surgery program. He rejoined academia in 2006 as an international surgical fellow at Michigan State University where he also completed a three-year residency program with a strong emphasis in orthopedic surgery and focus in minimally invasive osteosynthesis under Dr. Loic Dejardin's mentorship. He became boarded by the American and European Colleges of Veterinary Surgeons in 2011. Following his residency, Laurent became an assistant professor of orthopedic surgery in the Department of Small Animal Clinical Sciences and an attending orthopedic surgeon at the Veterinary Teaching Hospital at Michigan State University. He was then recruited to lead the creation of a new orthopedic surgery facility for the Ohio State University in Dublin, Ohio. In 2016, he created the Bone & Joint Center at ACCESS in Los Angeles with Dr. Reunan Guillou. This center is establishing itself as one of the prime location for advanced orthopedics and includes a comprehensive total joint replacement center, a strong minimally invasive orthopedic surgery program, and a tertiary referral service for revision cases. Dr. Guiot's major interest is orthopedic trauma and minimally invasive orthopedic surgery. He routinely presents his work internationally and is an active member of major national and international orthopedic programs including the Veterinary Orthopedic Society, the AO, and the Orthopedic Research Society. Laurent is committed to the improvement of patient care through the development of surgical techniques, instrumentation, and implants used for the treatment of orthopedic patients.

**Karlin, William - Lecturer**

DVM, MS, DACVS
Assistant Professor
Orthopedic Surgery
Department of Clinical Sciences
Cummings School of Veterinary Medicine
Tufts University
North Grafton, Massachusetts

Dr. Karlin is currently an Assistant Professor in Small Animal Orthopedic Surgery at the Cummings School of Veterinary Medicine at Tufts University. He earned his DVM degree at Kansas State University College of Veterinary medicine in 2006. He went on to complete a three year residency program and Masters Degree at the University of Illinois in Equine Surgery in 2010. He then worked in private practice at two equine surgical referral center for several years before completed the requirements for dual certification in Small Animal Surgery, at Lauderdale Veterinary Specialists. Dr. Karlin was the first surgeon to pass the requirements for dual certification through ACVS becoming a diplomate of the American College of Veterinary Surgeons (ACVS) in both small animal and large animal. His areas of clinical and research interest include arthroscopy, fracture healing, fracture repair and orthopedic implants including minimally invasive methods, total joint replacement, osteoarthritis, and assesment and correction of limb deformity.



Kerwin, Sharon - Lecturer
DVM, MS, DACVS, DACVIM
Professor
Small Animal Clinical Sciences
College of Veterinary Medicine
Texas A & M University
College Station, Texas

Dr. Kerwin received her DVM from Texas A&M University, completed a small animal rotating internship at Louisiana State University and completed a small animal surgery residency at LSU along with a Master of Science degree in veterinary physiology. She is a diplomate of both the American College of Veterinary Surgeons and the American College of Veterinary Internal Medicine (neurology). Her clinical and research interests involve orthopedics and neurology, with a special interest in fracture repair and spinal surgery. She also has a special interest in feline orthopedics and neurology. Dr. Kerwin is a graduate of both the Faculty Education and Chair Education Programs.



Malek, Sarah - Lecturer
DVM, PhD, DACVS
Assistant Professor in Small Animal Orthopedic Surgery
Department of Veterinary Clinical Sciences
Purdue University College of Veterinary Medicine
West Lafayette, Indiana

Dr. Sarah Malek is an Assistant Professor in Small Animal Orthopedic Surgery at Purdue University College of Veterinary Medicine. She completed her DVM degree at the University of Tehran, Iran. After completing rotating and specialty internships in Canada and U.S.A., she attended Atlantic Veterinary College at University of Prince Edward Island and completed a residency program in small animal surgery and a PhD in biomedical sciences. She obtained her board certification with the American College of Veterinary Surgeons in 2016. Her clinical interests are musculoskeletal diseases in dogs and cats with a focus on treatment of joint diseases and fracture management using minimally invasive techniques. Her research interests include disease pattern recognition using infrared spectroscopy and clinically oriented research in osteoarthritis in animals and humans.



Moens, Noel - Lecturer
DVM, MSc, DACVS, DECVS
Associate Professor
Orthopaedic Surgery
Department of Clinical Studies
Ontario Veterinary College
University of Guelph
Guelph, Ontario

Graduated from the University of Liege (Belgium) In 1991 and worked for three years as assistant in small animal orthopaedics at the University of Liege teaching hospital. He completed a residency in small animal surgery (1997) and a master of Science degree in small animal surgery in 1998 at the University of Saskatchewan (Canada). He is a diplomate of the American College and the European College of Veterinary Surgeons. Dr Moens held a post of assistant Professor in Small Animal Orthopaedics at the University of Prince Edward Island (PEI, Canada) until 2000 then joined the University of Guelph (Ontario, Canada). Dr Moens presently holds the rank of Associate Professor in small animal surgery (Orthopaedics) at the University of Guelph. He is currently chief of surgery and is actively involved in teaching students, interns and residents in his field of expertise. Dr Moens interests and research areas is fracture fixation and implants biomechanics.



Schaefer, Susan - Lecturer
MS, DVM, DACVS
Diplomate, American College of Veterinary Surgeons
ACVS Founding Fellow - Minimally Invasive Surgery (Small Animal Orthopedics)
Department of Surgical Sciences
University of Wisconsin-Madison
Madison, Wisconsin

Dr. Schaefer received her MS (1988) and DVM (1992) degrees from the University of Wisconsin - Madison. She completed a rotating internship at The Ohio State University and did her residency in small animal surgery at Michigan State University; becoming a Diplomate of the American College of Veterinary Surgeons (ACVS) in 1999. Dr. Schaefer then served on the faculty at Kansas State University and Washington State University and also worked as a surgeon in private referral practice. In 2003 she left practice to join the faculty at the University of Wisconsin-Madison. Dr. Schaefer's clinical interests include arthroscopy, musculoskeletal diagnostic imaging and bone healing/fracture repair. In 2018 she was awarded Founding Fellow status in Minimally Invasive Surgery by the ACVS. Her long-standing teaching focus has been on the fundamentals of orthopedic surgery and communication skills for clinical practice.



Syrcle, Jason - Lecturer
DVM, DACVS
Associate Professor of Clinical Small Animal Orthopedic Surgery
University of Pennsylvania School of Veterinary Medicine
Philadelphia, Pennsylvania

Jason Syrcle, DVM, DACVS-SA, is an Associate Professor of Clinical Small Animal Orthopedic Surgery and Chief of Small Animal Surgery at the University of Pennsylvania School of Veterinary Medicine. Dr. Syrcle graduated with a DVM from the University of Missouri, followed by a rotating internship at the Animal Medical Center in NYC. He completed a surgical internship at Affiliated Veterinary Specialists in Jacksonville, FL before returning to Animal Medical Center for a surgery residency. Dr. Syrcle was a faculty member at Mississippi State University for 10 years, serving as an Associate Clinical Professor and Chief of Small Animal Surgery, before joining the faculty at UPenn in 2019. Jason's clinical interests include fracture fixation, angular limb deformity correction and total hip replacement. Biomechanical testing of humeral fracture fixation is Dr. Syrcle's primary research interest.

Agenda

Day 1

Wednesday, November 02, 2022 - 08:00 - 18:55 - (includes breaks, travel-time and meals)

Activity	Area
AO Office	Asteric Boardroom
FRC	Asteric Boardroom
Lab	Media/Event Room
Lecture	Solana E
Skills Lab	Media/Event Room
Breakfast	Solana AB
Coffee Break	Solana Ballroom Foyer
Registration	Solana Ballroom Foyer
Reception	Solana Ballroom Foyer
Lunch	Solana Ballroom Foyer
Module A	Cascade A - Lower Lobby
Module B	Cascade B - Lower Lobby
Module C	Cascade C - Lower Lobby
Module D	Cascade D - Lower Lobby
Module E	Cascade E - Lower Lobby
Module F	Cascade F - Lower Lobby
Module H	Cascade Boardroom

Schedule	Title	Moderator	Faculty	Room
08:00 - 08:10	Welcome and Introduction		McLaughlin, R	Solana E
08:10 - 09:20	SCIENCE OF FRACTURES AND IMPLANTS	McLaughlin, R		Solana E
08:10 - 08:30	Biomechanics of Fracture Stabilization		Chou, P	Solana E
08:30 - 08:50	Biomechanics of Implants		Marcellin-Little, D	Solana E
08:50 - 09:10	Concept of Absolute and Relative Fracture Stability		Moens, N	Solana E
09:10 - 09:20	Summary and Questions		McLaughlin, R	Solana E
09:20 - 09:40	Coffee Break			Solana Ballroom Foyer
09:40 - 10:40	SCIENCE OF FRACTURES AND IMPLANTS (continued)	Marcellin-Little, D		Solana E
09:40 - 09:55	Principles of Bone Screw Function		Kerwin, S	Solana E
09:55 - 10:15	Principles and Clinical Application of Cerclage Wiring		Malek, S	Solana E
10:15 - 10:30	Principles and Clinical Application of Tension Band Wiring		Karlin, W	Solana E
10:30 - 10:40	Summary and Questions		Marcellin-Little, D	Solana E
10:40 - 10:45	Travel to Lab			
10:45 - 11:50	LAB 1: 1. Cerclage Wiring; 2. Tension Band	Schaefer, S		Media/Event Room
11:50 - 12:50	Lunch			Solana Ballroom Foyer
12:50 - 14:05	LAB 2: Intro to Drill, 3. Lag Screw and Position Screw; 4. Lag Screw Humeral Condyle	Schaefer, S		Media/Event Room
14:05 - 14:10	Travel to Lecture			
14:10 - 15:40	PRINCIPLES OF FRACTURE FIXATION WITH BONE PLATES	Budsberg, S		Solana E
14:10 - 14:30	Bone Plates: the DCP and LC-DCP; Clinical Application of Compression Plates		Malek, S	Solana E
14:30 - 14:45	Principles and Clinical Application of Neutralization Plates		Budsberg, S	Solana E

14:45 - 15:05	Principles and Clinical Application of Bridging Plates and Plate Rods	Kerwin, S	Solana E
15:05 - 15:20	Introduction to Locking Plates	Moens, N	Solana E
15:20 - 15:40	Locking Plates - Instruments and Application Technique	McLaughlin, R	Solana E
15:40 - 15:50	Summary and Questions	Budsberg, S	Solana E
15:50 - 16:10	Coffee Break and Travel to Skills Lab		Solana Ballroom Foyer
16:10 - 17:55	AO SKILLS LAB - An interactive lab consisting of a series of eight, hands-on exercises which reinforce a.) surgical skills improvement, b.) mechanics of bone fracture, c.) fracture healing and d.) mechanics of bone fixation. As participants advance in small groups through every station, they will be able to practice and interact with different bone models and devices that have been created specifically to facilitate understanding of the principle being examined	McLaughlin, R	
17:55 - 18:55	Welcome Reception		

Day 2

Thursday, November 03, 2022 - 08:00 - 18:15 - (includes breaks, travel-time and meals)

Activity	Area
AO Office	Asteric Boardroom
FRC	Asteric Boardroom
Lab	Media/Event Room
Lecture	Solana E
Skills Lab	Media/Event Room
Breakfast	Solana AB
Coffee Break	Solana Ballroom Foyer
Registration	Solana Ballroom Foyer
Reception	Solana Ballroom Foyer
Lunch	Solana Ballroom Foyer
Module A	Cascade A - Lower Lobby
Module B	Cascade B - Lower Lobby
Module C	Cascade C - Lower Lobby
Module D	Cascade D - Lower Lobby
Module E	Cascade E - Lower Lobby
Module F	Cascade F - Lower Lobby
Module H	Cascade Boardroom

Schedule	Title	Moderator	Faculty	Room
08:00 - 09:00	PRINCIPLES OF FRACTURE FIXATION (cont)	Kerwin, S		Solana E
08:00 - 08:15	Implant Size Selection		Malek, S	Solana E
08:15 - 08:30	Fracture Planning and Fracture Reduction		Chou, P	Solana E
08:30 - 08:45	Radiographic Appearance of Fracture Healing		Moens, N	Solana E
08:45 - 09:00	Coffee Break			Solana Ballroom Foyer
09:00 - 10:15	LAB 3: 5. Instruments - Plate Bending; 6. Transverse Fracture of the Radius	Schaefer, S		Media/Event Room
10:15 - 11:30	PRINCIPLES OF FIXATION WITH PINS, NAILS AND EXTERNAL FIXATORS	Malek, S		Solana E
10:15 - 10:30	Principles and Clinical Application of Intramedullary Pins and Wires		Filliquist, B	Solana E
10:30 - 10:50	Principles and Clinical Application of Interlocking Nailing		Guiot, L	Solana E
10:50 - 11:20	Principles and Application of External Fixators		Marcellin-Little, D	Solana E

11:20 - 11:30	Summary and Questions	Malek, S	Solana E
11:30 - 11:35	Travel to Fireside		
11:35 - 12:35	FIRESIDE 1: Options for Long Bone Fractures		

Group	Room
Group A	Cascade A - Lower Lobby
Group B	Cascade B - Lower Lobby
Group C	Cascade C - Lower Lobby
Group D	Cascade D - Lower Lobby
Group E	Cascade E - Lower Lobby
Group F	Cascade F - Lower Lobby
Group G	Cascade G - Lower Lobby
Group H	Cascade Boardroom

12:35 - 13:35	Lunch		Solana Ballroom Foyer
13:35 - 15:20	LAB 4: 7. 3.5mm LC-DCP Neutralization Plate - Oblique Fracture Tibia; 8. Iliac Body Fracture - Standard Plate	Schaefer, S	Media/Event Room
15:20 - 16:15	SOFT TISSUE CONSIDERATIONS IN FRACTURE REPAIR	Chou, P	Solana E
15:20 - 15:35	Patient Prep & Surgeon Prep - Skin and Draping		Kerwin, S Solana E
15:35 - 15:50	Surgical Incision, Dissection & Hemostasis		Guiot, L Solana E
15:50 - 16:05	Surgical Wound Closure		Karlin, W Solana E
16:05 - 16:15	Summary and Questions		Chou, P Solana E
16:15 - 16:25	Travel to Fireside		
16:25 - 18:15	FIRESIDE 2: The 4 A's for Assessing and Evaluating Fractures: Alignment, Apposition, Apparatus, Activity		

Group	Room
Group A	Cascade A - Lower Lobby
Group B	Cascade B - Lower Lobby
Group C	Cascade C - Lower Lobby
Group D	Cascade D - Lower Lobby
Group E	Cascade E - Lower Lobby
Group F	Cascade F - Lower Lobby
Group G	Cascade G - Lower Lobby
Group H	Cascade Boardroom

Day 3

Friday, November 04, 2022 - 08:00 - 18:00 - (includes breaks, travel-time and meals)

Activity	Area
AO Office	Asteric Boardroom
FRC	Asteric Boardroom
Lab	Media/Event Room
Lecture	Solana E
Skills Lab	Media/Event Room
Breakfast	Solana AB
Coffee Break	Solana Ballroom Foyer
Registration	Solana Ballroom Foyer
Reception	Solana Ballroom Foyer
Lunch	Solana Ballroom Foyer
Module A	Cascade A - Lower Lobby

Module B	Cascade B - Lower Lobby
Module C	Cascade C - Lower Lobby
Module D	Cascade D - Lower Lobby
Module E	Cascade E - Lower Lobby
Module F	Cascade F - Lower Lobby
Module H	Cascade Boardroom

Schedule	Title	Moderator	Faculty	Room
08:00 - 09:30	TREATMENT OF SPECIFIC FRACTURES IN THE DOG - PART 1	Moens, N		Solana E
08:00 - 08:20	Principles of Treatment of Joint Fractures		McLaughlin, R	Solana E
08:20 - 08:40	Fractures of the Elbow Joint		Chou, P	Solana E
08:40 - 09:00	Fractures of the Radius and Ulna in Small Dogs		Budsberg, S	Solana E
09:00 - 09:20	Principles of Fracture Treatment in the Young Growing Animal		Syrcele, J	Solana E
09:20 - 09:30	Summary and Questions		Moens, N	Solana E
09:30 - 09:50	Coffee Break			Solana Ballroom Foyer
09:50 - 11:50	LAB 5: 9. Introduction to Locking Plates; 10. Oblique Fracture Humerus - Lag Screw and Locking Plate	Schaefer, S		Media/Event Room
11:50 - 13:00	Lunch			Solana Ballroom Foyer
13:00 - 14:30	TREATMENT OF SPECIFIC FRACTURES IN THE DOG - PART 2	Filliquist, B		Solana E
13:00 - 13:20	Pelvic Fractures		McLaughlin, R	Solana E
13:20 - 13:40	Fractures of the Femoral Neck and Trochanter		Syrcele, J	Solana E
13:40 - 14:00	Fractures of the Distal Femur, Proximal Tibia		Marcellin-Little, D	Solana E
14:00 - 14:20	Simple Fractures and Luxations of the Distal Tibia, Metabones and Digits		Karlin, W	Solana E
14:20 - 14:30	Summary and Questions		Filliquist, B	Solana E
14:30 - 14:50	Coffee Break / Travel to Fireside			
14:50 - 16:20	FIRESIDE 3: Review Fracture Types and Healing; Joint, Radius, Pelvic, Femoral Neck/Trochanter, Distal Femur/Proximal Tibia, Simple Fractures			
	Group	Room		
	Group A	Cascade A - Lower Lobby		
	Group B	Cascade B - Lower Lobby		
	Group C	Cascade C - Lower Lobby		
	Group D	Cascade D - Lower Lobby		
	Group E	Cascade E - Lower Lobby		
	Group F	Cascade F - Lower Lobby		
	Group G	Cascade G - Lower Lobby		
	Group H	Cascade Boardroom		
16:20 - 16:25	Travel to Lab			
16:25 - 17:45	LAB 6: 11. Tibial Distal Short Oblique Fracture - Locking Plate; 12. Plate Rod Femur - Small Pin and Locking Plate	Schaefer, S		Media/Event Room
17:45 - 18:00	Faculty Feedback Session - In Lab			Media/Event Room

Day 4

Saturday, November 05, 2022 - 08:00 - 12:05 - (includes breaks, travel-time and meals)

Activity	Area
AO Office	Asteric Boardroom
FRC	Asteric Boardroom
Lab	Media/Event Room
Lecture	Solana E
Skills Lab	Media/Event Room
Breakfast	Solana AB
Coffee Break	Solana Ballroom Foyer
Registration	Solana Ballroom Foyer
Reception	Solana Ballroom Foyer
Lunch	Solana Ballroom Foyer
Module A	Cascade A - Lower Lobby
Module B	Cascade B - Lower Lobby
Module C	Cascade C - Lower Lobby
Module D	Cascade D - Lower Lobby
Module E	Cascade E - Lower Lobby
Module F	Cascade F - Lower Lobby
Module H	Cascade Boardroom

Schedule	Title	Moderator	Faculty	Room																		
08:00 - 09:30	FRACTURE CHALLENGES AND STRATEGIES TO AVOID THEM	Karlin, W		Solana E																		
08:00 - 08:20	Delayed Union and Nonunion Fractures		Filliquist, B	Solana E																		
08:20 - 08:40	Open Fractures		Budsberg, S	Solana E																		
08:40 - 09:00	Prevention and Management of Infections of Bone and Implants		Chou, P	Solana E																		
09:00 - 09:20	Bone Graft		Filliquist, B	Solana E																		
09:20 - 09:30	Summary and Questions		Karlin, W	Solana E																		
09:30 - 09:50	Coffee Break / Travel to Fireside																					
09:50 - 10:35	FIRESIDE 4: Fracture Complications and Technical Errors																					
	<table border="1"> <thead> <tr> <th>Group</th> <th>Room</th> </tr> </thead> <tbody> <tr> <td>Group A</td> <td>Cascade A - Lower Lobby</td> </tr> <tr> <td>Group B</td> <td>Cascade B - Lower Lobby</td> </tr> <tr> <td>Group C</td> <td>Cascade C - Lower Lobby</td> </tr> <tr> <td>Group D</td> <td>Cascade D - Lower Lobby</td> </tr> <tr> <td>Group E</td> <td>Cascade E - Lower Lobby</td> </tr> <tr> <td>Group F</td> <td>Cascade F - Lower Lobby</td> </tr> <tr> <td>Group G</td> <td>Cascade G - Lower Lobby</td> </tr> <tr> <td>Group H</td> <td>Cascade Boardroom</td> </tr> </tbody> </table>	Group	Room	Group A	Cascade A - Lower Lobby	Group B	Cascade B - Lower Lobby	Group C	Cascade C - Lower Lobby	Group D	Cascade D - Lower Lobby	Group E	Cascade E - Lower Lobby	Group F	Cascade F - Lower Lobby	Group G	Cascade G - Lower Lobby	Group H	Cascade Boardroom			
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10:35 - 12:05	FRACTURE CHALLENGES AND STRATEGIES TO AVOID THEM (Part 2)	Syrcl, J		Solana E																		
10:35 - 10:50	Implant Removal		Karlin, W	Solana E																		
10:50 - 11:10	External Coaptation		Malek, S	Solana E																		
11:10 - 11:30	Physiotherapy		Syrcl, J	Solana E																		

11:30 - 11:50	Decision Making in Orthopedics, Bringing It All Together	Guiot, L	Solana E
11:50 - 12:05	AO VET Membership and Future Course Opportunities	Marcellin-Little, D	Solana E
12:05 - 12:05	End of Course		Solana E

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