

DAY 1 October 23, 2025		
Time (Eastern Time)	Topic	Presenter(s)
7:30-8:00 am Lobby	Registration	
8:00-8:15 am Woerner Amphitheater	Welcome and Introductions	Dr. Virginia Reef
8:15-8:45 am Woerner Amphitheater	Lecture: Importance of Echo Image Standardization: Report from the ASE Equine Standards Committee Co-Chair Learning objectives:  • Understand importance of standardization of echocardiographic images  • Learn the accepted image orientation for right and left parasternal echocardiographic images.  • Learn the M-mode, 2D, and Doppler echocardiographic measurements that should be obtained in a standard examination.  • Learn the M-mode, 2D, and Doppler echocardiographic measurements that should be obtained in an animal with the common cardiac abnormalities.	Dr. Claire Underwood
8:45-9:15 am Woerner Amphitheater	Lecture: : Cardiac Implications of Sedation & Anesthesia Learning objectives:	Dr. Charlotte Iversen
9:15-9:45 am Woerner Amphitheater	Lecture: Determining Severity of Valvular Regurgitation: Implications for Treatment, Performance, Safety and Longevity Learning objectives:  Understand pressure half-time and how to use it to estimate AR severity  Understand how the aortic root diameter changes between early and late systole in AR  Understand proximal isovelocity surface area (PISA) and how to use it to assess MR severity  Understand vena contracta (VC) and its use to assess MR severity	Dr. Virginia Reef

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9:45-10:15 am	Lecture: Diastology for the Internal Medicine Specialist Learning objectives:  • Learn the 4 phases of diastole • Learn the 3 determinants of diastolic function • Understand the types of diastolic dysfunction • Understand the effect of age on diastolic function	Dr. Virginia Reef
10:15-10:30 am Lobby outside Woerner	Break	
	DAY 1 (continued) October 23, 2025	
Time (Eastern Time)	Topic	Presenter(s)
10:30-11:00 am Woerner Amphitheater	<ul> <li>Lecture: Echocardiography in the Emergency Patient</li> <li>Learning objectives:         <ul> <li>Learn which cardiac conditions are likely to present as emergencies</li> <li>Prioritise standard echocardiographic techniques for emergency patients</li> <li>Understand how hypovolaemia may impact echocardiographic variables</li> <li>Learn which echocardiographic images are important for diagnosis of acute cardiac conditions</li> <li>Learn how to integrate echocardiographic findings with treatment choices</li> </ul> </li> </ul>	Dr. Celia Marr
11:00-11:30 am Woerner Amphitheater	<ul> <li>Lecture: Sepsis and the Heart: Myocardial Depression and Myocarditis         <ul> <li>Learning objectives:</li> <li>Learn which patients and presentations are likely to involve myocardial depression and myocarditis</li> <li>Prioritise standard echocardiographic techniques which help identify myocardial depression and myocarditis</li> <li>Understand how advanced echo techniques may add diagnostic information in cases with myocardial depression and myocarditis</li> <li>Understand how to integrate echo data with other diagnostic findings</li> <li>Learn how to integrate echocardiographic findings with treatment choices</li> </ul> </li> </ul>	Dr.Celia Marr

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11:30 am-12:00 pm Woerner Amphitheater	Learning objectives:  Identify risk factors for endocarditis Understand the pathogenesis of infective endocarditis in horses Learn how to diagnose endocarditis and differentiate suspected from confirmed cases List treatment goals and understand how to deliver these Be familiar with likely clinical progression and how to monitor horses with infective endocarditis	Dr. Celia Marr
12:00-1:00 pm Alumni Hall	Lunch	
1:00-6:00 pm  Scott building – Stations 1-5 Treadmill stall East – Station 6	<ul> <li>Echocardiography Labs – 1. hour per station with 30-minute break in the middle; rotate through 4 of 6 stations         Horses with a variety of cardiac abnormalities will be echoed with assistance from the instructors. Stations will focus on right parasternal imaging planes and measurements, left parasternal imaging planes and measurements, color flow and continuous wave Doppler evaluation of jets and shunts, color and pulsed wave tissue Doppler imaging, obtaining images for speckle tracking and 4D echocardiography.         <ul> <li>Obtain the standard right and left parasternal views for 2D and M-mode echocardiography.</li> <li>Apply color flow Doppler echocardiography appropriately to find regurgitant jets and shunts.</li> <li>Apply tissue Doppler to the atrial and ventricular myocardium for evaluation of myocardial contractility and obtain appropriate images for speckle tracking.</li> </ul> </li> </ul>	Dr. Virginia Reef Dr. JoAnn Slack Dr. Cris Navas de Solis Dr. Gunther van Loon Dr. Celia Marr Dr. Charlotte Iversen
6:00 – 7:30 pm Allam House	Welcome Reception	

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DAY 2 October 24, 2025		
Time (Eastern Time)	Topic	Presenter(s)
8:00-10:00 am Scott building – Stations 1-5, East Treadmill Stall – Station 6	Echocardiography Lab (continued) – 1 hour per station; rotate through remaining 2 stations	Dr. Virginia Reef Dr. JoAnn Slack Dr. Cris Navas de Solis Dr. Gunther van Loon Dr. Celia Marr Dr. Charlotte Iversen
10:00-10:30 am Lobby outside Woerner	Break	
10:30-11:00 am Woerner Amphitheater	Lecture: Paroxysmal Atrial Fibrillation and Complex Arrhythmias: A Common Cause for Poor Performance? Learning objectives:  Learn the common types of complex arrhythmias during exercise. Learn the prevalence of paroxysmal atrial fibrillation and complex arrhythmias in horses of different disciplines  Describe the association of paroxysmal atrial fibrillation and complex arrhythmias with performance  Describe the association of paroxysmal atrial fibrillation and complex arrhythmias with safety	Dr Cris Navas de Solis
11:00-11:30 Woerner Amphitheater	Lecture: Underlying Heart Disease in Horses with Atrial Fibrillation: Lessons from Copenhagen Learning objectives:  Understand the effects of atrial fibrillation on the heart Learn about the athlete's heart and the association with atrial fibrillation Learn about the electrical, functional, and structural remodeling in AF Learn about omics and the association with atrial fibrillation	Dr. Charlotte Iversen
11:30-12:00 pm Woerner Amphitheater	<ul> <li>Lecture: Ablation of Equine Arrhythmias: Where are we?</li> <li>Learning objectives:         <ul> <li>Understand the basic principles and technique of mapping and ablation in horses</li> <li>Understand the indications for mapping and ablation in horses</li> <li>Recognize the limitations for mapping and ablation in horses</li> <li>Understand mechanisms of common arrhythmias</li> </ul> </li> </ul>	Dr. Gunther van Loon
12:00-1:00 pm Alumni Hall	Lunch	

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1:00 pm-1:30 pm Woerner Amphitheater	Lecture: Antiarrhythmic Drugs for Ventricular Arrhythmias: When to Treat and How to Choose?  Learning objectives:  Understand mechanisms of ventricular arrhythmias Risk assessment of ventricular arrhythmias Work-up of a horse with ventricular arrhythmias Recognize the different case-dependent treatment approaches	Dr. Gunther van Loon
1:30-2:00 pm Woerner Amphitheater	Lecture: Remote cardiac monitoring by an implantable device: the holy grail?"  Learning objectives:  Understand the principles of remote monitoring Practicalities for implantation of a device Indications for remote monitoring Appreciate the limitations of remote monitoring by an implantable device	Dr. Gunther van Loon
2:00-2:30 pm Woerner Amphitheater	Lecture: Incorporating Wearables in Your Practice Learning objectives:  Learn the current wearables that provide clinically useful information for cardiovascular assessment  Learn the relevant variables to monitor using wearables  Learn the associations between variables measured by current wearables and relevant clinical outcomes  Discuss approaches to implement the use of wearables in clinical practice	Dr. Cris Navas de Solis
2:30-2:45 pm Lobby outside Woerner	Break	

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Time (Eastern Time)	Topic Day 2 October 24, 2025	Presenter(s)
Scott building, Woerner amphitheater, Widener conference room, Moelis conference room, cardiology office, cardiology small exam room 2:45- 6:00 pm	Interactive Sessions – 50 min per station; rotate through 3 of 6 stations ECG Challenge, Reading exercising ECGs, Improve your echocardiographic anatomical insights, Echocardiographic measurements, Case reviews, and Echopac work station.  Learning objectives:	

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DAY 3 October 25, 2025		
Time (Eastern Time)	Topic	Presenter(s)
8:00-11:00 am, including break Scott building, Woerner amphitheater, Widener & Moelis conference room, cardiology office, cardiology small exam room	Interactive Sessions – 50 min per station; rotate through 3 of 6 stations ECG Challenge, Reading exercising ECGs, Improve your echocardiographic anatomical insights, Echocardiographic measurements, Case reviews, and Echopac work station.  Learning objectives:	Dr. Virginia Reef/Claire Underwood Dr. JoAnn Slack Dr. Cris Navas de Solis Dr. Gunther von Loon Dr. Charlotte Iversen Dr. Celia Marr
11:00 am -11:30 am	Lecture: Goats are the new dog: Client demand vs realities of caprine cardiology  Learning objectives:  Appreciate knowledge and gaps in our understanding of caprine cardiology  Understand the challenges of managing congenital and acquired heart disease in goats	Dr. Jo Slack
Alumni Hall 11:30 am -12:15 pm	Lunch (Catering by Occasion)	
12:15-12:45 pm Woerner Amphitheater	Lecture: Spit happens! The joys of camelid cardiology Learning objectives:  Understand normal basic echocardiography of llamas and alpacas Understand normal cardiac rhythms of llamas and alpacas	Dr. Jo Slack
12:45-1:15 pm Woerner Amphitheater	Stump the Experts: Case Presentations by Participants: Panel Discussion (10-15 minute case presentation; 15-20 minute discussion)	Dr. Emilie Setlawke and Panel
1:15 -1:45 pm Woerner Amphitheater	Stump the Experts: Case Presentations by Participants: Panel Discussion (10-15 minute case presentation; 15-20 minute discussion)	Dr. Meg MillerTurpin and Panel

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1:45-2:15 pm Woerner Amphitheater	Stump the Experts: Case Presentations by Participants: Panel Discussion (10-15 minute case presentation; 15-20 minute discussion)	Dr. Amy Polkes and Panel
2:15-2:45 pm Woerner Amphitheater	Stump the Experts: Case Presentations by Participants: Panel Discussion (10-15 minute case presentation; 15-20 minute discussion)	Dr. Carol Clark and Panel
2:45 pm	Course concludes	

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