



# Advanced Cardiology Review

## March 31 – April 3, 2025

**2025 Course Program**



C. WAYNE MCILWRAITH  
**TRANSLATIONAL  
MEDICINE INSTITUTE**  
COLORADO STATE UNIVERSITY

## Course Director

**Brian A. Scansen, DVM, MS, DACVIM (Cardiology)**

Professor and Service Head,  
Cardiology and Cardiac Surgery  
Colorado State University



The **Advanced Cardiology Review** has been in existence in various forms for over 20 years. In 2025, the review will grow to include 9 expert speakers focusing on nearly all aspects of clinical veterinary cardiology over four days of instruction.

**More than 30 hours** of lectures will be provided on cardiovascular physiology, pathology, hemodynamics and cardiac catheterization, electrophysiology and ECG interpretation, cardiac pacing, morphology and nomenclature of congenital heart disease, landmark manuscripts in veterinary cardiology, and interpretation of diagnostic imaging studies to include echocardiography, angiography, and cardiac computed tomography. In addition, a laboratory is offered demonstrating pathologic specimens from animals with both congenital and acquired heart disease. The review is focused on individual and group learning through collegial interactions and group discussion.

## Thank you to this year's course sponsors

Platinum



Gold



Silver



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## Course Faculty

**John D Bonagura, DVM, MS, DACVIM (Cardiology, Internal Medicine)**

Adjunct Professor of Cardiology, Colorado State University  
Adjunct Professor of Cardiology, North Carolina State University  
Professor Emeritus, The Ohio State University

**Philip R Fox, DVM, MSc, DACVIM/DECVIM-CA (Cardiology), DACVECC**

Vincent Astor Chair in Comparative Medicine, Schwarzman Animal Medical Center  
Adjunct Professor, Cornell University

**Sonya G Gordon, DVM, DVSc, DACVIM (Cardiology)**

Professor of Cardiology  
Eugene Ch'en Chair in Cardiology, Texas A&M University

**Bruce W Keene, DVM, MSc, DACVIM (Cardiology)**

Professor of Cardiology  
Jane Lewis Seaks Distinguished Professor of Companion Animal Medicine, North Carolina State University

**N. Sydney Moise, DVM, MS, DACVIM (Cardiology, Internal Medicine)**

C.V. Starr Emeritus Professor of Cardiology  
Cornell University

**Mark Oyama, DVM, MSCE, DACVIM (Cardiology)**

Professor in Dept. of Clinical Sciences & Advanced Medicine  
Charlotte Newton Sheppard Endowed Chair of Medicine, University of Pennsylvania School of Veterinary Medicine

**Anthony M. Toffoli, BS, CCDS**

Cardiac Device Specialist  
Medtronic, Inc.

**Lance C Visser, DVM, MS, DACVIM (Cardiology)**

Associate Professor of Cardiology,  
Colorado State University



## Travel

Plan your next adventure in Northern Colorado and the City of Fort Collins

Sun., March 30, 2025

## Register for the Wellness Pre-events

New Belgium Brewing



### Professional Development Event | 2:30 – 6 p.m.

For residents and board-eligible cardiology candidates

[Register](#)

### Networking Reception | 6 – 8 p.m.

For all course participants, presenters, and faculty

[Register](#)

## Day 1 | Mon., March 31 – sponsored by MEDVET



Time	Topic	Speaker
07:00	<i>Registration and Breakfast</i>	
07:45 – 08:00	Welcome & sponsor recognition	Brian Scansen
08:00 – 09:30	Cardiovascular Physiology – Key Concepts & Clinical Applications	John Bonagura
09:30 – 10:30	Evolving Concepts in the Pathophysiology of Heart Failure	Mark Oyama
10:30	<i>Break</i>	
11:00 – 12:00	Hemodynamic Interpretation	Bruce Keene
12:00	<i>Lunch sponsored by CVCA</i>	
13:00 – 15:00	Landmark Trials in Veterinary Cardiology	Mark Oyama
15:00	<i>Break</i>	
15:30 – 16:30	Abnormal Hemodynamics	Bruce Keene
16:30 – 18:00	Pressure Traces in Cardiovascular Disease	Brian Scansen
18:00	<i>Adjourn for Evening</i>	
19:00	<i>Dinner event sponsored by MedVet, location TBD</i>	

## Day 2 | Tues., April 1 – sponsored by IDEXX

Time	Topic	Speaker
07:00	<i>Breakfast</i>	
07:30 – 10:00	ECG Interpretation 1	Sydney Moise
10:00	<i>Break</i>	
10:30 – 11:30	ECG Interpretation 2	Sydney Moise
11:30 – 12:30	Cardiac Pacing – Settings and Basic Programming	Anthony Toffoli
12:30	<i>Lunch sponsored by Thrive</i>	
13:30 – 15:00	Cardiac Pacing – Advanced Programming and Troubleshooting	Anthony Toffoli
15:00	<i>Break</i>	
15:30 – 16:00	Echocardiography – Pearls, Calculations, Artifacts	Lance Visser
16:00 – 17:00	Echocardiography – Image Interpretation	Lance Visser
17:00 – 18:00	Angiography – Interpretation and Case Examples	Brian Scansen
18:00	<i>Adjourn for Evening</i>	
19:00	<i>Dinner event sponsored by IDEXX, location TBD</i>	

## Day 3 | Wed., April 2 – sponsored by Ceva



Ceva Animal Health

Time	Topic	Speaker
07:00	<i>Breakfast</i>	
07:30 – 08:00	Congenital Heart Disease Nomenclature	Brian Scansen
08:00 – 09:00	Congenital Heart Disease – Shunts & Valves	Brian Scansen
09:00 – 10:15	Congenital Heart Disease – Cyanotic and Complex	Brian Scansen
10:15	<i>Break</i>	
10:30 – 12:30	Cardiac Pathology	Philip Fox
12:30	<i>Lunch sponsored by VCA</i>	
13:30 – 15:00	Large Animal Cardiology	John Bonagura
15:00 – 18:00	Laboratory – Pathologic Specimens	Scansen, Bonagura, Fox, Visser, Potter
18:00	<i>Adjourn for Evening</i>	
19:00	<i>Dinner event sponsored by Ceva, location TBD</i>	

# Day 4 | Thurs., April 3 – sponsored by



Time	Topic	Speaker
07:15	<i>Breakfast</i>	
07:30 – 09:00	Advanced Imaging – Cardiac CT and TEE	Brian Scansen
09:00 – 10:00	Quiz Yourself: Cases	Sonya Gordon
10:00	<i>Break</i>	
10:30 – 12:30	Quiz Yourself: Cases	Sonya Gordon
12:30	<i>Lunch</i>	
13:30 – 15:30	Quiz Yourself: Mixed Images	John Bonagura
15:30	<i>Break</i>	
15:45 – 16:45	Quiz Yourself: Mixed Images	Brian Scansen
16:45	Review and Q&A	Brian Scansen
17:00	<i>Adjourn</i>	



## Questions and additional information

Dr. Brian Scansen, [Brian.Scansen@colostate.edu](mailto:Brian.Scansen@colostate.edu)



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