



Advanced Cardiology Review

April 15-18, 2024

2024 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 2023, the review will include 9 expert speakers focusing on nearly all aspects of clinical veterinary cardiology over four days of instruction. Over 29 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. The course also includes a laboratory demonstrating over 100 fixed pathologic specimens from animals with both congenital and acquired heart disease from the collections of Bill Thomas and Brian Scansen. The review is focused on individual and group learning through collegial interactions and group discussion.

Thank you to this year's course sponsors

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Silver



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Bronze



Course Faculty

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

Adjunct Professor, 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 Moïse, DVM, MS, DACVIM (Cardiology, Internal Medicine)

C.V. Starr Emeritus Professor of Cardiology
Cornell University

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



Sunday, April 14, 2024
Register for the Wellness Pre-event
 Odell Brewing Co



TRAVET Professional Development Event | 2:30 - 6 p.m.
 For residents and board-eligible cardiology candidates *Success Strategies for Examinations* and later a discussion on *Living your Best Career*



Scan to register for the TraxNet event

Networking Reception | 6 - 8 p.m.
 For all course participants, presenters, and faculty

Day 1 | Monday, April 15 - sponsored by **SonoPath**
FOSTERING THE ART OF VETERINARY MEDICINE™

| Time | Topic | Speaker |
|---------------|---|-----------------|
| 07:00 | Registration and Breakfast | |
| 07:45 - 08:00 | Welcome & sponsor recognition | Brian Scansen |
| 08:00 - 09:15 | Sinus Node and AV Node Rhythm Disorders: Mechanisms & Clinical Recognition | N Sydney Moise |
| 09:15 - 10:30 | Electrocardiographic and Basic Electrophysiological Diagnosis of Supraventricular Arrhythmias | N Sydney Moise |
| 10:30 | Break | |
| 11:00 - 12:00 | Mechanisms & Clinical Concepts of Ventricular Arrhythmia | N Sydney Moise |
| 12:00 | Lunch sponsored by MedVet | |
| 13:00 - 15:30 | Cardiac Pacing: Programming and Trouble-Shooting | Anthony Toffoli |
| 15:30 | Break | |
| 16:00 - 18:00 | Angiography - Interpretation & Clinical Examples | Brian Scansen |
| 18:00 | Adjourn for Evening | |
| 19:00 | Dinner event sponsored by CVCA | |

Day 2 | Tuesday, April 16 - sponsored by **Ceva**
Ceva Animal Health

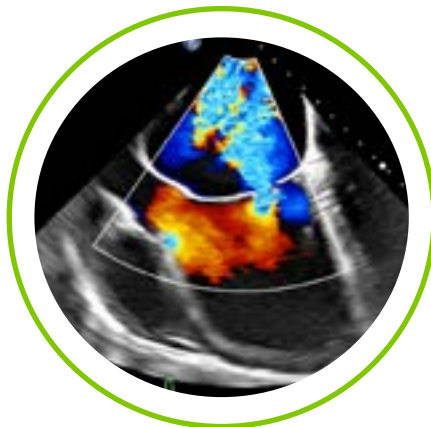
| Time | Topic | Speaker |
|---------------|--|----------------------|
| 07:00 | Breakfast | |
| 07:30 - 09:00 | Cardiovascular Physiology - Key Concepts & Clinical Applications | John Bonagura |
| 09:00 - 09:45 | Normal Hemodynamics and Expected Waveforms | Bruce Keene |
| 09:45 | Break | |
| 10:15 - 11:30 | Abnormal Hemodynamics | Bruce Keene |
| 11:30 - 12:30 | Pressure Traces in Cardiovascular Disease | Brian Scansen |
| 12:30 | Lunch sponsored by Thrive | |
| 13:30 - 15:30 | Landmark Trials in Veterinary Cardiology | Mark Oyama (Virtual) |
| 15:30 | Break | |
| 16:00 - 16:45 | Echocardiography - Pearls, Calculations, Artifacts | Lance Visser |
| 16:45 - 18:00 | Echocardiography - Image Interpretation | Lance Visser |
| 18:00 | Adjourn for Evening | |
| 19:00 | Dinner Event, location TBD | |

Day 3 | Wednesday, April 17 - sponsored by **IDEXX**

| Time | Topic | Speaker |
|---------------|---|---|
| 07:00 | Breakfast | |
| 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 | Break | |
| 10:30 - 12:30 | Cardiac Pathology | Philip Fox |
| 12:30 | Lunch sponsored by VCA | |
| 13:30 - 15:00 | Large Animal Cardiology | John Bonagura |
| 15:00 - 18:00 | Laboratory - Pathologic Specimens | Scansen, Bonagura, Fox, Keene, Visser, Potter |
| 18:00 | Adjourn for Evening | |
| 19:00 | Dinner Event, location TBD | |

Day 4 | Thursday, April 18

| 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> | |
| 13:00 - 14:00 | 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 at
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