

**International VetCo Conference**

# **Small Animal Cardiology**

**September 17-18, 2016**

**Warsaw**



**Conference Proceedings**

**Publisher:**

VetCo – Veterinary Consulting & Control

Al. 3 Maja 7/2, 00-401 Warsaw, Poland

phone: +48 22 127 35 11

e-mail: [biuro@vetco.pl](mailto:biuro@vetco.pl)

web: [www.vetco.org](http://www.vetco.org)

**Copyright © [2016 VetCo – Veterinary Consulting & Control]**

# CONTENTS

<b>I. Conference Program</b> .....	X
<b>II. Lecturers</b> .....	X
<b>III. Lectures</b> .....	X
• <b>The Golden Rules of Differentiating Left Heart Failure from Chronic Bronchitis</b> ( <i>M. Kittleson</i> ) .....	X
• <b>Hearts on Drugs – Treatment of Heart Failure in Dogs</b> ( <i>M. Kittleson</i> ) .....	X
• <b>Heart Failure and Complicating Factors – A Real Balancing Act</b> ( <i>J. Stern</i> ) ....	X
• <b>Pulmonary Hypertension</b> ( <i>J. Stern</i> ) .....	X
• <b>Mitral Regurgitation – The Leak from Hell</b> ( <i>M. Kittleson</i> ) .....	X
• <b>Feline Hypertrophic Cardiomyopathy – Getting Into the Thick of It</b> ( <i>M. Kittleson</i> ) .....	X
• <b>The Genetics of Hypertrophic Cardiomyopathy – Mutations and Mutant Cats</b> ( <i>M. Kittleson</i> ) .....	X
• <b>Arrhythmogenic Right Ventricular Cardiomyopathy in Dogs</b> ( <i>J. Stern</i> ) .....	X
• <b>Step Away from the Cat – Differentiating Heart Failure from Pulmonary Disease in Cats</b> ( <i>J. Stern</i> ) .....	X
• <b>ECG Analysis &amp; Approach to Treatment – Notes</b> ( <i>J. Stern</i> ) .....	X
• <b>Congenital Cardiac Case Compilations – Notes</b> ( <i>M. Kittleson</i> ) .....	X

# VETCO CONFERENCE PROGRAM

## SMALL ANIMAL CARDIOLOGY

REGISTRATION FROM 7:00

CONFERENCE START AT 9:00



### September 17, Saturday

#### **Session I, 9:00-12:30**

The Golden Rules of Differentiating Left Heart Failure From Chronic Bronchitis	<b>M. Kittleson</b>
Coffee break	<b>10:00-10:15</b>
Hearts on Drugs - Treatment of Heart Failure in Dogs	<b>M. Kittleson</b>
Coffee break	<b>11:15-11:30</b>
Heart Failure and Complicating Factors – A Real Balancing Act	<b>J. Stern</b>
Lunch	<b>12:30-13:30</b>

#### **Session II, 13:30-17:00**

Pulmonary Hypertension - Pathophysiology and Diagnosis	<b>J. Stern</b>
Coffee break	<b>14:30-14:45</b>
Pulmonary Hypertension - Treatment and Prognosis	<b>J. Stern</b>
Coffee break	<b>15:45-16:00</b>
Mitral Regurgitation - The Leak from Hell	<b>M. Kittleson</b>

### September 18, Sunday

#### **Session I, 8:30-12:00**

Feline Hypertrophic Cardiomyopathy - Getting Into the Thick of It	<b>M. Kittleson</b>
Coffee break	<b>9:30-9:45</b>
The Genetics of Hypertrophic Cardiomyopathy - Mutations and Mutant Cats	<b>M. Kittleson</b>
Coffee break	<b>10:45-11:00</b>
Arrhythmogenic Right Ventricular Cardiomyopathy in Dogs	<b>J. Stern</b>
Lunch	<b>12:00-12:45</b>

#### **Session II, 12:45-17:00**

Live Scan – Demonstration of Echocardiography	<b>U. B-Bruzzone</b>
Coffee break	<b>13:15-13:30</b>
Step Away From the Cat - Differentiating Heart Failure from Pulmonary Disease in Cats	<b>J. Stern</b>
Coffee break	<b>14:30-14:45</b>
ECG Analysis & Approach to Treatment	<b>J. Stern</b>
Coffee break	<b>15:45-16:00</b>
Congenital Cardiac Case Compilations	<b>M. Kittleson</b>
Ending	<b>17:00</b>

## **VETCO CONFERENCE LECTURERS:**

### **SMALL ANIMAL CARDIOLOGY**

#### **Mark D. Kittleson, DVM, PhD, Diplomate ACVIM (Cardiology); Professor Emeritus**



**UC DAVIS**  
UNIVERSITY OF CALIFORNIA

Dr. Mark Kittleson is Professor Emeritus at the University of California, Davis where, for 27 years he was a professor in the Department of Medicine and Epidemiology. He graduated from the University of Minnesota (DVM) in 1974 and after spending two years in small animal practice went to Kansas State University to complete his residency training and obtain his Masters degree. From there he went to the Ohio State University to obtain his PhD. Dr. Kittleson then spent four years on faculty at Michigan State University before moving to UC Davis in 1984.

Dr. Kittleson's landmark research was in the study of the natural history and the cause of hypertrophic cardiomyopathy (HCM; a disease of the heart muscle) in cats. Not only was Dr. Kittleson's research groundbreaking in veterinary medicine, it was also applicable to the study of the same disease in humans. Dr. Kittleson is also the co-discoverer of taurine deficiency as the cause of dilated cardiomyopathy (DCM) in cats. He received the Ralston Purina Small Animal Research Award in 1989 for his work with taurine and was a finalist in the Animal Planet Cat Hero of the Year Award in 2007.

Dr. Kittleson is the primary author of the textbook Small Animal Cardiovascular Medicine. He also is the author of the Web site Case Studies in Small Animal Cardiovascular Medicine. Dr. Kittleson has published extensively in the field of veterinary cardiology, authoring more than 100 scientific publications and more than 30 book chapters. He has also been the primary speaker at veterinary meetings numerous times worldwide. Dr. Kittleson is board certified in Cardiology by the American College of Veterinary Internal Medicine (ACVIM) and has been President of the Specialty of Cardiology of ACVIM and Chairman of the Board of Regents of ACVIM. He has also served as associate editor for the Journal of Veterinary Internal Medicine.

Dr. Kittleson is currently a cardiology consultant on the Veterinary Information Network (VIN), an organization dedicated to consulting and continuing education of veterinarians, student, and staff.

## **Joshua A. Stern, BS, DVM, PhD, Diplomate ACVIM (Cardiology); Assistant Professor**



Dr. Joshua Stern, originally from Bristolville, Ohio, obtained his BS (2003) and DVM (2008) from The Ohio State University. He stayed at Ohio State to complete a small animal internship in 2009. Dr. Stern then began a residency in cardiology at Washington State University and completed it at North Carolina State University in 2012. Dr. Stern also completed a PhD at Washington State University focusing on the genetics of familial subvalvular aortic stenosis in dogs.



Dr. Stern's research is primarily focused on the study of inherited heart disease. His cardiac genetics laboratory (sterngenetics@ucdavis.edu) also evaluates pharmacogenetics (the study of how genetic differences impact an animal's response to certain drugs).

Dr. Stern currently serves as the service chief and residency program director for cardiology. He is an active member of the American College of Veterinary Internal Medicine and serves as an Associate Editor for the Journal of Veterinary Cardiology.