THURSDAY, APRIL 25

8:00-8:50am (Reineke) Small Animal Poisonings: Is Lipid Emulsion Therapy the New Antidote?
Poisonings are a common reason for emergency room visits in veterinary small animal patients. A novel and promising development in toxicology is the use of intravenous lipid emulsion (ILE) as an antidote for fat soluble toxins. This session will discuss ILE’s proposed mechanism of action and review the current experimental and clinical evidence for its use in certain intoxications. CE Credit: 1 Hour

9:10-10:00am (Mellema) Non-anesthetic actions of propofol: Everything else that “Milk of Amnesia” does
Propofol is perhaps the most widely used agent used for intravenous anesthesia in small animal practice today. This session will provide the attendee with an overview of propofol’s non-anesthetic effects including: anti-emetic effects, immunomodulatory effects, antioxidant properties, and platelet inhibitory properties. CE Credit: 1 Hour

10:30-11:20am (Reineke) Goal Directed Fluid Therapy
The cornerstone for treating patients with shock is intravenous fluid therapy. However, dosing intravenous fluids during resuscitation remains largely empirical. Recent data in both human and veterinary literature suggests that by targeting specific hemodynamic and oxygen transport goals patient outcome may be improved. This session will cover the application of goal directed therapy during shock resuscitation in small animal patients. CE Credit: 1 Hour

11:30am-12:30pm (Mellema) Hetastarch constant rate infusions: To bolus or not to bolus
Hetastarch is a widely used agent for colloidal support and volume expansion. The effects of bolus administration on platelet function and other parameters are well described. This session will provide an overview of the effects of hetastarch on these same parameters when it is delivered as a constant rate infusion at 1-2 ml/kg/hr. The discussion will be based upon recently completed studies from the speaker’s lab at UCD. CE Credit: 1 Hour

2:00-2:50pm (Reineke) Feline Urethral Obstruction: The Critically Ill ‘Blocked Cat’
This session will review an emergency approach to the critically ill cat with feline urethral obstruction including treatment of cardiac arrhythmias, fluid therapy, and caudal epidural technique for analgesia. CE Credit: 1 Hour

3:00-3:50pm (Kerl) UR in trouble! Acute kidney injury
Acute kidney injury (AKI) refers to an abrupt decline in renal function which is a precursor to acute kidney failure. This lecture will highlight some newer causes of kidney injury, and examine how even small declines in kidney function can worsen outcomes. We will review various schemes to predict acute kidney injury, and discuss ways to successfully manage patients with acute kidney injury. CE Credit: 1 Hour

4:00-4:50pm (Mellema) State of the Art Stew: A hearty blend of therapeutic and diagnostic tools
This session will have something for everyone! A case-based overview of the many benefits of modern nasal oxygen delivery units (HHHF) relative to standard nasal oxygen therapy will kick things off. Next, the utility of continuous intravascular oximetry in both venous and arterial sites will be discussed based on the speaker’s experience with the PULSION monitoring platform. Lastly, a discussion of the pathophysiology and prognostic importance of low serum cholesterol in critically ill small animal patients will follow. Spoiler: They don’t all have lymphangectasia. CE Credit: 1 Hour

6:30 PM WELCOME RECEPTION
FOOD AND DRINK PROVIDED

FRIDAY, APRIL 26

8:00-8:50am (Reineke) Stabilization of the Diabetic Ketoacidotic Patient
This session will review the pathophysiology and treatment of DKA in small animals including emergency stabilization and insulin therapy. A discussion of newer continuous glucose monitoring devices will be included. CE Credit: 1 Hour

9:10-10:00am (Mellema) Organ crosstalk: Social networking gone bad
Organ crosstalk is a broad term for the phenomenon in which an alteration in the function of one organ system leads to downstream alterations in the function of others. This concept has been central to most modern frameworks seeking to explain the pathophysiology of MODS. These frameworks have predominantly focused on paracrine, autocrine, and endocrine signaling by secreted proteins. This session will focus on updating the attendees on other newly described means of organ crosstalk and their potential importance in critical illness. CE Credit: 1 Hour

10:30-11:20am (Burkett) ACVECC Small Animal Journal(s) Year in Review: Most Impactful and Useful Updates for the Busy Clinician.
Year in Review sessions have been very popular at the fall ACVECC meetings in the past likely because it gives busy clinicians an opportunity to hear and discuss some of the “more important” emergency and critical care related publications over the preceding year. Unfortunately, due to logistical reasons the determination of “more important”, the number of references reviewed and the number that can be presented is done by one individual. This clearly limits the comprehensiveness of the journals reviewed, the manuscripts that are included and evaluated, and the actual presentation. This year the Year in Review sessions at ACVECC 2012 were expanded to 3 hours. A committee was formed composed of 10 ACVECC Diplomates to review articles from many more journals over the past
year (Q3-4, 2011 and Q1-2, 2012) and the most significant manuscripts decided upon by the group were presented. For the IVECCS Spring Meeting 2013 this year a summary of the top 4-6 articles reviewed at IVECCS 2012 will be presented. **CE Credit: 1 Hour**

**LIMITED ENROLLMENT (EXTRA FEE REQUIRED)**
12:00-1:30pm (Burkett) Bureaucratical Disorders: What Else Besides the Medicine Do You Need to Know to Be Successful
In this presentation we will define leadership, identify a few traits every leader should develop and show the impact leadership can have on your life and the lives of those you lead. We will also present strategies for successful communication in today’s complex workplace environment. The composition of the workforce has transformed over the years, and integrating differences in gender, race, and ethnicity is vital to the success of a business. Another factor has now been recognized as significant: age diversity. The age range of employees can be from 16 to 60, and everywhere in between. We now face four generations of individuals each having been raised with distinct technologies and lifestyles. If not managed appropriately, these differences can have profound effects upon productivity and morale.

The goal of this program will emphasize the skills needed for improving communication, not only within the veterinary healthcare team, but also during client interaction. We hope to create awareness for various communication challenges and discuss strategies on how to become most effective in communicating with team members, supervisors, and clients. In closing we will present an overview of the guiding philosophy that underscores the CULTURE of leadership and communication we are trying to create within our hospital. **CE Credit: 1.5 Hours**

**SATURDAY, APRIL 27**
NO LECTURES...HAVE FUN!!

**SUNDAY, APRIL 28**

8:00-8:50am (Reineke) Water, Water, Everywhere: Sodium & Water Balance
Abnormalities in sodium, both hyponatremia and hypernatremia, can occur in critically ill small animal patients. This session will review sodium physiology and total water balance. Case examples will be used to illustrate a treatment approach to patients with sodium abnormalities. **CE Credit: 1 Hour**

9:10-10:00am (Mellema) Penetrating abdominal injuries: Rational decisions for absurd wounds
The speaker’s all time favorite case from nineteen years in practice will serve as a framework for an evidence-based discussion of the management of penetrating wounds to the abdomen. The evidence might surprise you. As nice as Cancun may be, this case is worth staying indoors for a while. **CE Credit: 1 Hour**

10:30am-12:20pm (Rudloff, Reineke, Mellema, et al) Case based discussion and other sundry topics. **CE Credit: 2 Hours**

**FEATURED SPEAKERS**

**MATT MELLEMA, DVM, DACVECC**
Dr. Matt Mellema is a native of northern California and did his undergraduate training at UC Berkeley. He received his DVM degree from UC Davis in 1994. Following graduation, he completed a focused internship in Small Animal Emergency Medicine at Tufts University and remained at Tufts as an instructor for an additional year. He then went to work for Cardiopet, Inc. (now part of IDEXX), as a consultant in cardiothoracic medicine. He completed a residency in emergency and critical care medicine at UC Davis in 2000 and is a Diplomate of the American College of Veterinary Emergency and Critical Care. Following his residency, Dr. Mellema went back to Boston yet again to get his PhD in Physiology at Harvard University. He joined the faculty at UC Davis in 2007 as an assistant professor of Small Animal Emergency and Critical Care. He is co-director of the SA-ICU and the SA-E/CC residency program at UC Davis.

**ERIKA REINEKE, DVM**
Dr. Erica Reineke is a 2002 graduate of the University of Pennsylvania. She completed a small animal rotating internship followed by a residency in emergency and critical care medicine also at the University of Pennsylvania. Dr. Reineke is currently an assistant professor of Emergency and Critical Care Medicine at the University of Pennsylvania. Dr. Reineke has authored book chapters on emergency and critical care topics including serotonin syndrome, cyanide, glucose monitoring and glycemic control, and feline trauma. Her interests include minimally invasive monitoring and diagnostic techniques, feline urethral obstruction, and small animal toxicosis.

**GUEST SPEAKERS**

**DENNIS BURKETT, DVM, DACVECC, DACVIM (CARDIOLOGY)**
Hope Veterinary Specialists; Malvern, PA

**MARIE KERL, DVM, DACVECC, DACVIM (SAIM)**
VECCS President; Associate Teaching Professor, University of Missouri, Columbia, MO

**ELKE RUDLOFF, DVM, DACVECC**
Clinical Specialist, Lakeshore Veterinary Specialists; Glendale WI