

## Healthy Environment = Healthy You – First Session

**Organizer:** Sherri Russell DVM, State Wildlife Veterinarian, Missouri Department of Conservation,  
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**Abstract:** Enhancing the relevance of resources management is integrally tied to the perceived value of the resource by the customer or resource user. There is an international initiative underway that is aimed at uniting Ecosystem health with human health. This initiative is known as “One Health” and is aimed at being collaborative-synergistic-enlightening and cross disciplinary. For the natural resource professional, it offers a way of thinking that can enhance the mission of protecting forests, fish and wildlife. This workshop will present ideas across various disciplines united under the concept of “One Health”. The aim of the workshop is to provide the audience with new ways of seeing their daily work as part of a larger fabric of enhancing public health at the same time as protecting the health of the resources directly. The following ideas will be presented:

Friday, February 2, 8:00am – 10:00 am: **Healthy People and Wild Places**

*Workshop focuses on the intersection between Wildlife Health, Human Health and Resource Health.*

### **8:00-8:20 – One Health**

The State Agriculture Veterinarian’s perspective on the intersections between Domestic Animal Health, Human Health and Wildlife Health.

**Presenter:** Linda Hickam, DVM (State Veterinarian- Missouri Department of Agriculture)

### **8:20-8:40 – Prion 101.5: Understanding the Zombie**

What we know and what we don’t and why that matters to the Natural Resource professional.

**Presenter:** Sherri Russell, DVM (State Wildlife Veterinarian -Missouri Department of Conservation)

### **8:40-9:00 – Soil Microbes and Soil Health**

The diversity of the soil microbial community is enormous, and this complex community is crucial for soil, plant, and ecosystem health.

**Presenter:** Dr. Kristen Veum, Research Soil Scientist, USDA-ARS

### **9:00-9:20 – Turtle Safaris, Health Impacts and Home Range: The Saint Louis Box Turtle Project**

This talk will showcase an ongoing project of the Institute for Conservation Medicine that involves urban people interacting with nature while advancing the understanding of challenged species.

**Presenter:** Jamie Palmer, MS Institute for Conservation Medicine, St. Louis Zoo

### **9:20 – 9:40 – Physiologic Effect on Wildlife of Environmental Contaminants**

This talk will address what we know about new and old contaminants on the physiology of wildlife.

**Presenter:** Katrina Knott, PhD (Contaminants Biologist - Missouri Department of Conservation)

### **9:40-10:00 – One Health and Vector-Borne Diseases: We’ve Been Doing One Health for a Long Time**

This talk focuses on the most common vector-borne diseases that occur in Missouri and understanding their ecology.

**Presenter:** Karen Yates, M.SC. Vector Borne Disease Surveillance Coordinator, Missouri Department of Health and Human Services