



Loren Buck, PhD  
Professor of Biological Sciences  
Northern Arizona University  
Professor of Ecology  
University of São Paulo

Please Join the CEP Department  
for a presentation on  
**Walking the tightrope between  
stability and change:  
investigations of wildlife and  
humans in the Anthropocene.**



**Wednesday, October 4th  
Drachman Hall A122  
12:00 - 1:00 PM  
Zoom: 84837816371**

**Abstract: All life on Earth has been shaped through evolutionary processes by the predictable rhythms of the planet such as photoperiod, temperature, and seasons, among others. In addition to these predictable rhythms, both unpredictable and emergent events or conditions on local and global scales have further exerted and outsized influence on the evolution and persistence of systems and species. Present day consequences of >8 B people distributed across the globe cannot be overstated with respect to its impact on human health, ecosystems, and wildlife. The Buck Endocrine and Physiology lab uses a combination of biomarkers and biologging to investigate organismal adaptations, resilience, and vulnerability to extreme and changing environments. This lecture will focus on three ongoing research projects that fall under the auspices of Conservation Physiology and One Health. The first highlighting the impacts of climate change on the biology of an Arctic extremophile followed by investigations of human impacts on persistence and recovery of the great whales. And finally, I will share research findings associated with a long-term, collaborative CBPR project that addresses a primary environmental public health concern through investigation of the nature, extent, biological effects, and human health implications of contamination from formerly used defense sites at Northeast Cape on St. Lawrence Island.**

**\*\*Only EHS Students\*\***

**Please RSVP for lunch Q&A following the presentation:  
<https://forms.gle/85Ywc3XFNXwHizfw8>**



THE UNIVERSITY OF ARIZONA  
Mel & Enid Zuckerman  
College of Public Health