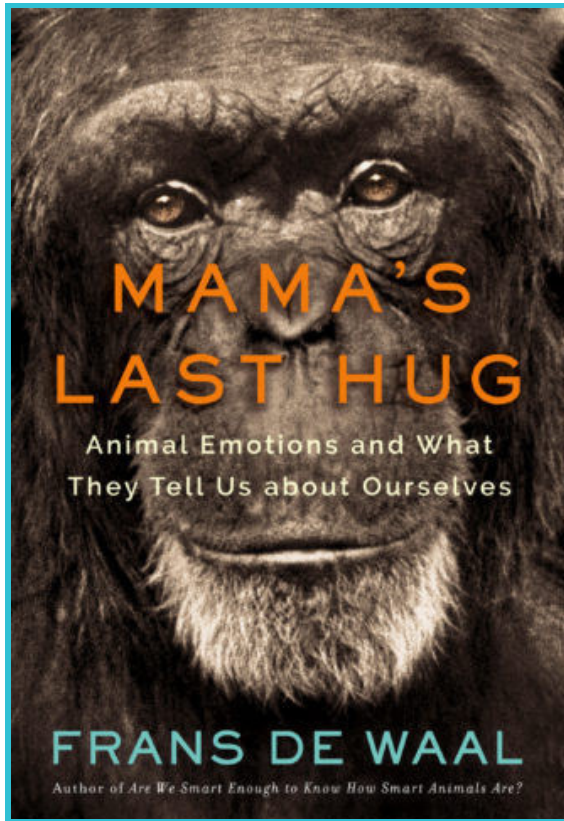




The Center for the Dynamics of Social Complexity (DySoC) &
the National Institute for Mathematical and Biological Synthesis
(NIMBioS) at the University of Tennessee present:

A DySoC/NIMBioS Interdisciplinary Seminar

Animal Emotions and Empathy



Dr. Frans de Waal

Living Links, Yerkes National Primate Research
Center, Emory University &
Utrecht University

3:30 p.m.*, Thursday, February 14, 2019

Strong Hall Auditorium 101

Emotions suffuse much of the language employed by students of animal behavior — from "social bonding" to "alarm calls" — yet are still regularly avoided as an explicit topic in scientific discourse. Given the increasing interest of human psychology in the emotions, and the neuroscience on animal emotions such as fear and attachment, the taboo that has hampered animal research in this area is outdated. The main point is to separate emotions from feelings, which are the subjective experiences that accompany the emotions. Whereas science has no access to animal feelings, animal emotions are as observable and measurable (face, voice, physiology, neural activity) as human emotions. They are mental and bodily states that potentiate behavior appropriate to mostly social situations. I will discuss early ideas about animal emotions and draw upon research on empathy and the perception of emotions in primates to make the point that the study of animal emotions is a necessary complement to the study of behavior. Emotions are best viewed as the organizers of adaptive responses to environmental stimuli.

**Book signing to follow*