13th FEFCO

Forest Ecosystem Function Colloquium (FEFCO) は、地域や地球全体のレベルで森林生態系の機能とその持続的活用法を統合的に理解することを目的とし、研究者間の学術交流を推進します。

第13回森林生態系機能コロキウムは、アメリカ　ネブラスカ大学から来日され12月20日まで滞在されるSabrina E. Russo博士に講演していただきます。どなたでも参加できます。京都大学農学研究科熱帯生態学研究室がホストを務めます。

13th FEFCO

2014/11/6 16:00 - 17:30

Faculty of Agriculture Main Building, S174

Dr. Sabrina E. Russo, Associate Professor
(School of Biological Sciences,
University of Nebraska – Lincoln, USA)

Resource Allocation Trade-offs Among Bornean Tree Species: Consequences and Mechanisms

All organisms face trade-offs in how resources are allocated during a lifetime. For example, a juvenile tree growing in the understory of a closed-canopy forest accumulates carbohydrates via photosynthesis. Those carbohydrates could be used to make new leaves, or instead, they could be stored for future use, or used to synthesize defensive compounds. The evolutionary responses to these unavoidable trade-offs have produced a range of species' life history strategies. I will discuss the mechanistic basis for trade-offs in resource allocation that individual tropical trees make, how variation in resource availability affects those trade-offs, and how trade-offs at the individual level affect the distribution and diversity of tree species along environmental gradients in Bornean rain forest.

Forest Ecosystem Function Colloquium
京都大学・森林生態系機能コロキウム