Symposium 19: Integrating Plant Eco-Physiology into a Whole Vision of Tropical Forest Function

Bonito, 22nd June 2012 (Friday)

Juan M. Posada (University of el Rosario, Colombia)
Eduardo Arcoverde de Mattos (Universidade Federal do Rio de Janeiro, Brazil)
Lou Santiago (University of California Riverside, USA)

This symposium will be a unique opportunity to learn about the most recent progresses in plant eco-physiology in tropical ecosystems around the world. The last few years have seen significant advances in the field that have improved our understanding of the evolution of plant form and function and about the role that individuals play at the community and ecosystem scale. The symposium brings together researchers working on stress physiology, resource use, photosynthesis, water relations and plant functional traits, among others, and whose work helps establish how plant morphology and physiology influences distribution and abundance of plants and the organization of communities and ecosystem processes under a changing global scenario.

TALKS (Room Kadiwéu 1, 14h00-16h30)

14h00-14h15 (S19.P.03) **Effects of xylem water transport on CO2 efflux of woody tissue in a tropical tree.** *Norbert Kunert*

14h15-14h30 (S19.OC.02) **Temperature response of leaf dark respiration of tropical canopy trees and lianas and its implication for modeling forest responses to climate warming.** *Kaoru Kitajima*

14h30-14h45 (S19.OC.03) **Exploring the role of nutrients in determining the water relations and carbon allocation of woody plants in Neotropical savannas and semi-deciduous forests.** *Sandra Bucci*

14h45-15h00 (S19.OC.04) **Trait variation along a broad geographical gradient for widespread neotropical savanna trees.** *Augusto Franco*

15h00-15h15 (S19.OC.05) **What natural and manipulative experiments can tell us about distribution and abundance of plants along environmental gradients? The case of the Brazilian Atlantic rainforest.** *Eduardo Arcoverde de Mattos*

15h15-15h30 (S19.OC.06) **Integrating wood structure and function with the life of tropical rainforest trees.** *Peter Hietz*

POSTERS (Karuha Space, 15h30-16h30)

S19.P.01. **Ecophysiological canopy adaptations of native shrubs and trees of the range Eastern in critical environmental for growth (Colombia, South America).** *Omar Melo*

S19.P.04. **Test of the optimal light use efficiency hypothesis in Andean seedlings: implications for the scaling of photosynthesis.** *Juan M. Posada*

S19.P.05. **Cluster-root formation and tissue P concentration in a Brazilian Proteaceae species as dependent on P supply.** *Patricia de Britto Costa*