



SYMPOSIUM 4: THE ASSEMBLY & EVOLUTION OF THE AMAZONIAN BIOTA

Bonito, 19th June 2012 (Tuesday)

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Amazonia is Earth's most iconic hotspot of diversity and endemism and, arguably, the most important terrestrial biome for its contributions to global systems ecology. To understand the importance and future of Amazonian biodiversity to Earth-systems biology, it is crucial to place the present-day Amazonian biome in its historical context. Our understanding of how Amazonian biodiversity has been generated and assembled, taxonomically and ecologically remains surprisingly meager, as is knowledge about how Amazonian ecosystems have responded to historical environmental change. There are also major uncertainties about the paleogeography, age, and extent of its immense freshwater and terrestrial ecosystems. Some models posit that these ecosystems were established in the Middle to Late Miocene, whereas others see them as being Plio-Pleistocene in age. Resolving these historical uncertainties, as well as addressing how biotas within Amazonia have responded to past paleogeographic and climatic events, have major implications for understanding past and present environmental change, for predicting the future of ecosystem structure and function at different spatiotemporal scales, and for understanding the generation and maintenance of biodiversity.

TALKS (Guaicurus, 09h00-12h30)

9h00-09h15 (S04.OC.01) **Savanna development in northern South America during the Neogene.** *Carlos Jaramillo*

09h15-09h30 (S04.OC.02) **Molecular phylogenetics and the pattern and timing of diversification of toucans (Family: Ramphastidae).** *John Bates*

09h30-09h45 (S04.OC.03) **Relating spatial and temporal patterns of bird diversification to landscape evolution in Amazonia.** *Camila Ribas*

09h45-10h00 (S04.OC.04) **Timing of avian diversification in the Amazon basin: role of large rivers as vicariant forces.** *Luciano Naka*

10h00-10h15 (S04.OC.05) **Amazonia river barriers: the primates of the Rio Branco Rio Negro region.** *Jean Philippe Boubli*

10h15-10h30 (S04.OC.06) **Historical biogeography of Amazonian and Atlantic forest gladiator frogs (*Hypsiboas*).** *Lauren Zeidler*

Coffee Break

11h00-11h15 (S04.OC.07) **Timing and biogeography of *Bignonia* L. (Bignoniaceae): a predominantly Amazonian clade.** *Alexandre Rizzo Zuntini*

11h15-11h30 (S04.OC.08) **The Brazil nut family: a symbol of the Amazon.** *Christopher Dick*

11h30-11h45 (S04.OC.9) **Origin and evolution of the Chrysobalanaceae family: insights into the evolution of plants in the Neotropics.** *Léa Bardon*

11h45-12h00 (S04.OC.11) **Ecological correlates of diversification rates amongst neotropical trees.** *Tim Baker*

12h00-12h15 (S04.OC.11) **Just how badly do we know the Amazon Flora?**
Michael Hopkins

12h15-12h30 (S01.P.06) **Vegetation, biodiversity, fire and climate dynamics in tropical and subtropical South American ecosystems during the late Quaternary.** *Hermann Behling*

POSTER (Karuha Space, 15h30-16h30)

S04.P.01. Aspects of richness and biogeography of Euglossini (Hymenoptera: Apidae) in Brazil. *José Neiva Mesquita Neto*