



**ICDP workshop**  
**Quaternary Tertiary Tropics – Colônia Sediment Archive Drilling Project**  
**(QUE COISA)**  
Sept 26 - 29 2014

Salão Nobre, Instituto de Geociências, University of São Paulo, Brazil

**26 September**

**Presentation of the project**

9h - 9h30 registration - welcome **Director of IGc**

*Chairman Uwe Reimold*

9h30 Uli Harms Presentation of ICDP

9h50 Marie-Pierre Ledru Presentation of the project " Quaternary Tertiary Tropics – Colônia Sediment Archive Drilling Project"

**Studies on Colônia**

10h10 Alvaro Crosta "Colônia basin structure – origin by impact cratering?"

10h30 Ulrich Struck "Colônia basin structure – changes of paleo-environment and climatic conditions investigated at high resolution"

**10h50 Coffee break**

*Chairman Uwe Reimold*

11h10 Lucy Gomes Sant'Anna "Sedimentology and mineralogy of sediments of the Colônia Crater: what we know and implications"

**State of knowledge (in the region of Colônia )**

11h30 Francisco W. Cruz "Paleoclimate changes in subtropical Brazil during the last four glacial-interglacial cycles from speleothem records"

12h10 Marcos Vasconcelos "What are the physical properties data expected for drill holes in

impact craters?"

12h30 Sueli Yoshinaga Pereira "Paleohydrology stratigraphy and the interactions with aquifers from Colônia Crater "

12h50 - 14h30 Lunch

*Chairman Francisco Cruz*

14h30 Cristina Miyaki " Phylogeography of Atlantic Forest organisms: why paleoenvironment reconstruction is so important?"

14h50 Fresia Ricardi-Branco "Searching the prior paleofloras of the atlantic forest "

15h10 Ana Carnaval "Measuring Atlantic forest diversity turnover in space and time"

15h30 Paulo E. De Oliveira "Vegetation and Climate of the Atlantic Rainforest of the State of São Paulo during the Late Pleistocene and Holocene "

15h50 Ilana Wainer (or Luciana Prado) "Reconstruction of the South Atlantic Subtropical Dipole index for the past 12,000 years from surface temperature proxy"

16h10 Marlei Chamani "Recognizing impact-triggered soft sediment deformation: problems and possible guidelines"

## **27 September**

*Excursion to Colônia*

## **28 September**

*Chairman Cristina Miyaki*

*ICDP deep drillings*

9h00 Jonathan Overpeck "ICDP at Bosumtwi Ghana West Africa"

9h30 Flavio Anselmetti ICDP-core based paleoreconstructions over several glacial-interglacial cycles (600'000 yrs, Lake Van), their challenges (dating, core analysis, proxies) and their implications

*Chronology of Colônia*

10h Edouard Bard "Elemental and organic geochemistry of Colônia sediments" and presentation of the paleomagnetism on Nicolas Thouveny's behalf.

10h40 Coffee break

*Chairman Daniel Ariztegui*

11h00 Fred Jourdan "Dating the Colonia impact crater (and its sediments?)"

11h20 Ricardo I.F. Trindade " Paleomagnetism of impact craters and their sediment fill"

11h40 Giancarlo Scadia "Application of paleomagnetism and rock magnetism to lacustrine successions: potentials and concerns"

12h00 Andre Sawakuchi "Optically Stimulated Luminescence dating: feasibilities to obtain reliable age models for deposition of Quaternary sediments "

12h30 14h30 Lunch

*Chairman Giancarlo Scardia*

14h30 Francisco W. Cruz "Using speleothems records in Brazil as a tool for relative dating of Colonia Pollen Record"

14h50 Cristiano Chiessi "The use of stable oxygen isotopes in the western South Atlantic paleoceanography: Recent achievements and future research directions in the framework of the Colônia drilling project"#

15h10 José Ferrari "Spectral analysis of sedimentary records"

15h30 Charly Favier "Establishing long-term chronostratigraphy from multiple dating approaches and orbital tuning procedure"

15h50 Coffee break

*Sedimentology Chairman André Sawakuchi*

16h10 Renato L. Prado "Seismic Reflection Investigation at Colonia Structure"

16h30 Patricia Roeser "Sediment Mineralogy and Geochemistry - a perspective from CoDa analysis, based on the example of Lake Iznik"

*New fields of research Chairman André Sawakuchi*

16h50 Daniel Ariztegui "Investigating the subsurface biosphere in the peat bog and lacustrine sediments in the Colônia scientific drilling"

17h10 Timothy M. Shanahan "A molecular geochemical perspective on long-term tropical climate variability"

17h30 Antonio de Moraes M Teles "Vertical and horizontal drilling simulation at South America, the Arctic and Antarctic for future robotic and human Mars exploration"

## **29 September**

*Planning a drilling campaign Chairman Cristiano Chiessi*

9h Uli Harms "Issues to be taken in consideration, tips from ICDP"

9h20 Flavio Anselmetti "Tips on funding, planning, executing and harvesting ICDP drilling campaigns"

9h40 José Veríssimo Nery "SONDOSOLO"

10h Coffee break

10h20 12h 30 Discussion of the different items to be integrated in the final proposal

Poster

Emilson Leite "Geofísica das crateras basálticas no Brasil"