



# International Workshop

## Tree rings, isotopes and recent climate change in the Amazon basin

INPA, Manaus, Amazonas, Brazil

25-29 January 2016

Auditório da Ciência - Bosque da Ciência

Program (open for scientific community)

| Monday, 25 January 2016   |   |
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| <b>Seminar: Tree ring analysis in the tropics: growth rhythms and climate reconstructions</b> |   |
| 11:00 – 11:45   | <b>Wood anatomy: basics and tree ring recognition</b><br>Gregorio C. T. Ceccantini (Universidade de São Paulo, Brazil)  |
| 11:45 – 12:30   | <b>The Mexican Drought Atlas</b><br>David W. Stahle (University of Arkansas, USA)   |
| Tuesday, 26 January 2016  |   |
| <b>Seminar: Climate change in the Amazon: recent trends and drivers</b>                       |   |
| 09:00 – 09:45   | <b>Recent climate trends over the Amazon basin and impacts on its forests</b><br>Manuel Gloor (University of Leeds, UK)   |
| 09:45 – 10:30   | <b>Mechanisms behind the recent extreme hydrological events (droughts and floods)</b><br>Jhan C. Espinoza (Instituto Geofísico del Perú)  |
| 10:30 – 11:00   | Coffee break  |
| 11:00 – 11:45   | <b>Long-term perspective on Amazon hydrological cycle</b><br>Jonathan Barichivich (Laboratoire des Sciences du Climat et de l'Environnement, France)  |
| 11:45 – 12:30   | <b>Tree rings from Central Amazonian floodplains: what do they tell us about climate-growth relationships and past climate conditions</b><br>Jochen Schöngart (Instituto Nacional de Pesquisas da Amazônia, Brazil) |
| Thursday, 28 January 2016   |   |
| <b>Seminar: Use of isotopes to understand climate of the past</b>                             |   |
| 09:45 – 10:30   | <b>Speleothem reconstructions from South-America for the past 120k years</b><br>Francisco Cruz (Universidade de São Paulo, Brazil)  |
| 10:30 – 11:00   | Coffee break  |
| 11:00 – 11:45   | <b>Climate signals in tree ring <math>\delta^{18}\text{O}</math> from the Amazon for the past 150 years</b><br>Roel J. W. Brienen (University of Leeds, UK)   |
| 11:45 – 12:30   | <b>Use of isotopes as proxies for climate in South Africa and South America</b><br>Arnoud Boom (University of Leichesther, UK)  |
| Friday, 29 January 2016   |   |
| <b>Seminar: Use of tree rings and isotopes to understand plant physiology</b>                 |   |
| 09:00 – 09:45   | <b>Increased intrinsic water-use efficiency in tropical trees</b><br>Giuliano M. Locosselli (Universidade de São Paulo, Brazil)   |
| 09:45 – 10:30   | <b>Using carbon isotope discrimination to disentangle shade and drought stress in trees</b><br>Roel J. W. Brienen (University of Leeds, UK)   |
| 10:30 – 11:00   | Coffee break  |
| 11:00 – 11:45   | <b>Seasonal signals in isotopes in tropical tree species</b><br>Bruno B. L. Cintra (University of Leeds, UK)  |
| 11:45 – 12:30   | <b>Climate responses of species <i>Cedrela odorata</i>, <i>Poincianella pyramidalis</i> and <i>Pachira stenopetala</i> in Northeastern Brazil</b><br>Claudio S. Lisi (Universidade Federal de Sergipe, Brazil)      |