

## Wood anatomical and technological properties of three species of *Hymenaea* L. (JATOBÁ) on plantation and naturally grown trees

Atayde, Claudene <sup>(1)</sup>; Silva, Marlene <sup>(2)</sup> and Dünisch, Oliver <sup>(3)</sup>

**Institutions:** <sup>(1)</sup> Empresa Brasileira de Pesquisa Agropecuária - CPAA, AM, Brasil, <sup>(2)</sup> Instituto Nacional de Pesquisas da Amazônia, AM, Brasil, <sup>(3)</sup> Universität Hamburg, Hamburg, Deutschland

### Content of Abstract:

Comparisons between north x south directions and DBH height x top position, of trees from three species of genus *Hymenaea* were made related to the mechanical, physical and anatomical properties. *Hymenaea courbaril* (seven years) and *Hymenaea* sp. (eighteen years) were collected in plantation and *Hymenaea intermedia* (not determined) was collected from natural sites. Sample collection was carried out of EMBRAPA, EEST/INPA and MIL Madeireira, respectively. There is no significant difference between north x south directions at DBH and between north x south at top. No significant difference between DBH x top was found, as well. Significant difference was found between plantation grown trees of the same specie. The variation in a tree was higher in plantation grown trees than natural growth. We conclude that in spite of the plantation grown tree show tendency of adult wood characteristics, there is still a large variation of those characteristics, as inside as between trees of the same specie. The variation will decrease with the change from juvenile to adult growth of constituents elements of the wood. We suggest to do more studies not only with species of *Hymenaea* but with others woody amazonian species, as weel.