

BOOK OF ABSTRACTS

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App macroHOLZdata and CITESwoodID: Computer-aided identification and description of internationally traded and CITES-protected timbers

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Abstract: The knowledge about recognition and utilization of the most important internationally traded timbers is of prime importance to forestry and wood industry as well as timber trade and even control authorities. As an important tool for this purpose, the databases **macroHOLZdata** and **CITESwoodID** developed at the Thünen Institute for Wood Research has been programmed as mobile Apps for smartphones and tablets. The databases enable the user to identify/localize trade timbers by means of macroscopic wood structural features. In addition, the digital learning tools allow access to a data pool with timber specific information on properties, utilization, and other relevant characteristics.

In detail the Apps **macroHOLZdata** and **CITESwoodID** offer:

- an interactive identification of 150 important trade timbers (macroHOLZdata) and 53 CITES-listed timbers (CITESwoodID) based on macroscopic features which can be observed with the unaided eye or with a hand lens,
- numerous high-quality illustrations of wood characters and timbers alike featuring transverse and longitudinal surfaces,
- a database with pertinent information on wood properties, processing, and utilization (macroHOLZdata)
- a textbook with definitions, explanations, procedures, etc. for most features used in the description.
- internationally available (iOS and Android) using tablet PC and smartphones

The Apps are primarily designed for all institutions, companies and individuals involved in international trade and control of wood and wood products to combat illegal logging. They are also well suited for education and advanced training of students and for timber industry in the fields of wood identification, wood properties and utilization. The application and features of the databases are presented on the basis of practical exercises.