

Research Unit Forest Dynamics - colloquium

Date: 21.03.2023

Time: 10:30

Room: Engler-Saal

Duration: 25 minutes

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Title: 3D printing as a driver for technical innovations in Dendrosciences

Abstract:

Anatomical applications evolved to a standard in Dendroecology because of the innovative strength of researchers and technicians developing new techniques for sample preparation, stabilization, or embedding. Any development typically requires technical knowhow, mechanical skills, and specialized machines for metal or wood processing. Further development of tools is mostly impossible without the support of an experienced mechanic or carpenter and the appropriate equipment. We applied 3D software and 3D printers to produce parts for devices being applied in Dendrosciences. We present the basics for prototyping by showing detailed examples of new devices developed and produced using a 3D printer and related modeling software.