

SHORT CV: GRIL Joseph

Thematic Area: TA1



Mechanical modeling

- Conservation of wooden objects
- Influence of microclimate

Dr Gril studies how wood performs its mechanical functions in both man-made objects and living trees. He models the time-dependent deformation of wood subjected to changing climate and relationships between structure and properties, and collaborates with restorers to improve the conservation of ancient wooden objects. Holds a CNRS senior scientist position in mechanical engineering science and currently leads a French groupment of institutions and researchers involved in wood science (GDR3544 CNRS). Graduated 1981 Ecole Polytechnique and 1983 Ecole du Génie rural des Eaux et des Forêts, 1988 PhD in mechanical engineering from Paris 6 University, 1997 Habilitation from Montpellier University. In 1989 was hired as CNRS researcher in LMGC Montpellier where he led a research group devoted to basic and applied knowledge on wood mechanics. In 2009 invited professor of Kyoto University. In 2017 moved to Clermont-Ferrand where he joined Institut Pascal. Collaboration with wood scientists in Europe, Japan, China, Morocco, Iran... where he usually provided data analysis and modelling. Contributed significantly to the progress of wood mechanics in Europe by active networking activity through COST system, e.g. as vice-chair of Actions E50 "Cell-wall macromolecules and reaction wood" (2005-2009) and IE0601 "Wood science for conservation of cultural heritage" (2007-2011). Won CNRS silver medal in 2003 and since 2004 leads the mechanical study of Mona Lisa wooden support. Published more than 100 Journal articles and book chapters and organized several international conferences mostly in connection with COST Actions.



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