

**UNIVERSITY OF THESSALY**  
**School of Engineering - Department of Civil Engineering**

**Series of Scientific Lectures**  
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*This lecture is co-organised with the*

**Department of Forestry, Wood Sciences & Design**

**Traditional and modern techniques for wood protection**

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Wednesday **15/3/2023**, Time: **11:15**

Webinar: [MS Teams](#)

Live Streaming: [DIAVLOS](#), [YouTube](#)

**Abstract** The lecture is related to the traditional and modern techniques used in the protection of wood. In the beginning, fundamentals respecting the wood as a biological material, its main disadvantages, and the main biotic and abiotic factors deteriorating the wood, are discussed. Then, the speaker analyses the biological durability of wood and the subsequent use-classes, in accordance with the European standard EN 350. He attempts to present a review of the wooden structures as used in the past, as well as to analyse the traditional techniques for wood protection and conservation relating to pine tar, natural oils and resins. Also, the method of wood protection through impregnation under high pressure, is described and several technical and non- technical aspects of it are discussed. Finally, the old traditional Japanese protection technique called Yakisugi is shortly presented.

