

Contract No: **T2EDK-01243-BIORESCOM**

Title: **Production Of New Polymers And Materials Utilizing Phenolic And Furanic Platform Molecules From Biomass**

Duration: **18/02/2020-17/06/2023**

Abstract:

CHIMAR's goal in this project is to utilize/exploit the phenolic and furan monomers/oligomers recovered from lignocellulosic biomass, towards the production of new bio-based phenol-formaldehyde-type resins, achieving as much as possible substitution levels of petroleum compounds, through the combination of the two types of bio-monomers. Phenol-formaldehyde bio-based resins will be used as adhesive resins for the manufacture of composite wood products and in particular plywood. To achieve the objectives of the project, CHIMAR assigned specific tasks to the Subcontractor, the Department of Chemistry, in Aristotle University Thessaloniki, a team with significant expertise in the processing and utilization of residual biomass towards chemicals and high added value products as well as in the development of polymeric nanocomposite materials.

The project is co-financed by the European Regional Development Fund of the European Union and Greek national funds through the Operational Programme “Competitiveness, Entrepreneurship and Innovation” (EPAnEK) 2014-2020, under the Call RESEARCH – CREATE – INNOVATE (Code no: T2EDK-01243) as well as by private funds.



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