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Involvement in the COST Action: Leader of WG2, Member of SC, Member of MC

Research interest

Development of innovative, environmentally friendly, adhesives and chemicals for the wood-based dpanels industry, as to replace the petrochemical materials. In particular:

- Adhesives and chemicals from lignin, tannin , protein and other raw materials derived from lignocellulosic feedstock.
- Replacement of wood by other agricultural by-products

Specialized technique available in my lab

Lab equipment for

- Small and large scale chemical reactions up to 50 litres
- Manufacture of particleboards and plywood (50x50 cm)
- Mechanical testing of panels
- Measurement of free formaldehyde emissions from panels with desiccator, perforator and chamber for gas analysis (CHIMAR is an accredited lab for the performator method)
- Analysis of polymers with DSC, GPC, Kjeldahl

Additional comment

CHIMAR HELLAS, is a pioneer in providing innovative industrial technology for the resin and wood based panel industries in all continents. It specializes in developing and licensing know-how for the production of formaldehyde-based resins, laminating syrups and various additives, as well as in the application of said products in manufacturing particleboard, fibreboard, plywood, oriented strand board and laminating papers. CHIMAR also undertakes the engineering and procurement of turnkey plants producing formaldehyde, urea formaldehyde pre-condensate (UFC), formaldehyde resins and additives.