



VALORIZATION OF AGROINDUSTRIAL RAW MATERIALS FOR THE PRODUCTION OF ADHESIVES FOR THE WOOD INDUSTRY

> Advanced Nanocomposites Research Group



Ministerio de Producción Presidencia de la Nación



Centro de Investigación y Desarrollo Tecnológico de la Industria del Caucho







PROPOSAL

- 1. Replacement of ureaformaldehyde resins(UF).
- Used for the production of particleboards and plywoods
 - Non renewable material.
 - Formaldehyde was declared a carcinogen by the World Health Organization (WHO).

2. Industrialization of agricultural products.

- Development of protein based bioadhesives (soybean and blood meal)
 - Improvement of the mechanical properties by the incorporation of clay nanoparticles.
 - Increasement of raw materials added value.

3. Promotion of sustainable industries

- Production of environmentally friendly products.
- Use of waste, or byproducts, of the agricultural industry.





CURRENT PARTNERS OF THE ADVANCED NANOCOMPOSITES RESEARCH GROUP

PUBLIC COLLABORATORS

PRIVATE COLLABORATORS



Centro de Investigación y Desarrollo Tecnológico para la Industria Plástica

INSTITUTO DE

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AMBIENTAL





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Instituto Cubano de Investigaciones de los Derivados de la Caña de Azúcar





SEARCH OF PARTNERS

R&D in Timber and Wood

 Universities or Research Institutes with experience in particleboards, plywood or composite wood panels.

R&D in Adhesives and Bioadhesives

 Universities or Research Institutes with experience in protein based adhesives.

Private Collaborators

 Wood
Companies with an innovative profile and interested in the development of sustainable and eco-friendly industries.



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