

NANO-NOCMAT - Nanotechnology principles applied to agro-industrial wastes and by-products for improved performance of nonconventional materials and sustainable housing

Holmer Savastano Jr. –Brazilian Coordinator



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Objectives and Partners

- The introduction of **Nanotechnology** basic principles in association to **local resources** and **available agro-industry waste**.
 - Lead to high performance, more **sustainable and durable constructive solutions**.
 - **Filtering membranes** for the air and water purification.
 - Technologies of **microencapsulation** associated to **supercritical treatment** for curing will open the utilization of those agro-based materials to different fields in the civil construction.
 - **Durability and life cycle assessment** will certificate the sustainability of the technologies.
- **Partners**
 - **Academic institutions:** USP, UNESP, UFLA, UFAM, U Antilles, U Extremadura, UPV, UP Bucharest, EGE Uni, Marmara Uni, U Copenhagen
 - **Research institutes:** INPA Brazil, INCDTP Romania
 - **Industry partners:** TNS, IECA, ENCE, KLABIN, EMPA, DIELE Shoes

Relevant projects and mobility schemes

- AWAPUMAT – FAPESP & ANR Blanc International
- FAPESP PITE
- CAPES PVE
- FINEP/FUNDEP/MCTI – FEESC
- INNOBITE EU - [FP7-ENVIRONMENT](#)
- NanoTextSurf – EU Horizon 2020
- INNOVA-LEATHER - POSCCE-A2/Operation 2.1.2. ID 638
- Green Tannery – UEFISCDI
- IND-ECO- INDUstry - CIP- IEE Programme
- TEXBIOCOLL – UEFISCDI
- AGRO-SMARTGEL - IncomERA program
- Natural wool - MCI
- Biocomp - ANCS
- Mobility Schemes
 - EBW
 - CAPES Studies Abroad
 - PVE
 - Erasmus Mundus
- Ongoing activities
 - Chaires Franco-Brasiliennes “Adding value to tropical products and agro-industrial wastes for the achievement of nonconventional materials and sustainable technologies”
 - CSIC PROGRAM OF SCIENTIFIC COOPERATION FOR DEVELOPMENT. ICOOPA2015
- Under preparation
 - FAPESP BMBF

Plan of Activities – Workshops

- The first location in Brazil
 - Emphases on the participation of the Brazilian partners (UNESP, UFLA, INPA, UFAM, INFIBRA, KLABIN, TNS)
 - Attraction of other partners and young researchers.
- The second Conference in Madrid
 - Emphases on the participation of European partners
- Simultaneous work and coordination missions
 - Intensive courses, preparation of multi-year projects.
 - Preparation of competitive research proposal
- Agrowaste Noc-Mat contributes to the Circular Economy
- Nanotechnology basic principles
 - Lead to high performance, more sustainable and durable constructive solutions and filtrating membranes

Thank you!!
holmersj@usp.br

