

Avances en materiales poliméricos y tecnologías de impresión 3D: Retos y oportunidades en la investigación aplicada

📅 *Celebración: 10 de junio a las 10:00 h*

📍 *Aula B1, Edificio Leonardo da Vinci*

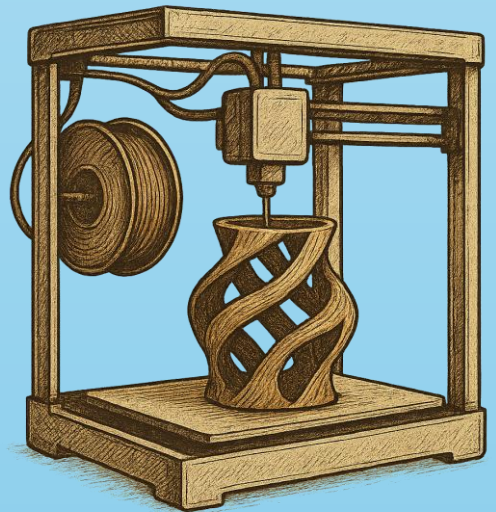
🔗 *Organizada: Programa de Doctorado en Computación Avanzada, Energía Y Plasmas*



Seminar abstract:

In recent years, biomass-based materials have gained increasing value among researchers due to their degradability and renewability. Natural lignocellulose is the most abundant biomass on earth, with a complex intertwined structure of cellulose, hemicellulose, and lignin.

This seminar provides an overview of the technology, materials, and applications of Material Extrusion (MEX) Additive Manufacturing of bio-based polymers, focusing on recent studies of lignin and its derivatives for the preparation and use of materials for 3D printing.



ROBERTO SPINA is a full professor at Politecnico di Bari since 2021 and a professor from 2004 to 2021. He graduated in Mechanical Engineering at Politecnico di Bari in 1996 and received a Ph.D. in Industrial Engineering from Politecnico di Bari in 2000. He is a lecturer in Manufacturing of Aeronautical Materials (M.Sc. in Mechanical Engineering) and Manufacturing Processes II (MSc in Industrial Engineering).

The main research topics addressed during the scientific activity are technologies of fabrication of polymeric materials and metal powders, technologies of additive manufacturing of polymeric materials, joining technologies of light alloys and dissimilar materials and material characterization for manufacturing.



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