

Nanocellulose@POLIMI

Speakers

Prof. Ramzi Khiari

University of Monastir (Tunisia)

Prof. Marc Delgado-Aguilar

University of Girona

10.00 Welcome and Introduction

10.05 *Toward a Circular Bioeconomy: Valorization of Lignocellulosic Biomass for the Production of Nanocellulose-Based Green Materials*

Prof. Ramzi Khiari

10.40 *Drying out the challenges: how water content shapes the future of nanocellulose in industry*

Prof. Marc Delgado-Aguilar

11.15 Q&A and final remarks

Ramzi Khiari is a senior lecturer at the Higher Institute of Technological Studies in Ksar-Hellal (Monastir, Tunisia) in the department of Textile Engineering. He is a permanent member of Applied Chemistry and Environment research group in the Faculty of Sciences of Monastir of University of Monastir in Tunisia. He was graduated in 2005 at the National Engineering School of in the specialty of Textile Chemistry, before getting a Master degree (2007) from the same institution. Then he performed a sandwich PhD thesis (2010) between University of Monastir in Tunisia and Grenoble INP in France. Finally, in 2017, he has got the diploma of "Habilitation Universitaires" from University of Monastir and 2020 he has got the diploma "Habilitation à diriger des Recherches" in Grenoble INP. His research interests focuses on the valorization of biomass at multi-scale levels namely: fibers, nanocellulose, lignin, hemicelluloses and their used as potential raw material in several industrial applications (Textile, papermaking, polymeric materials, composites and nanocomposites). A particular focus is given for vegetal biomass from annual plants, and particularly agricultural residues and industrial wastes

Marc Delgado-Aguilar is an Associate Professor of Chemical Engineering at the Polytechnic School of the University of Girona, in Spain. He received his PhD in Chemical Engineering in 2015 with honors and, since then, he has been actively working in both research and industrial projects related to lignocellulosic materials. Since 2021, he leads the Laboratory of Sustainable Materials and Product Design (LEPAMAP-PROD/IS), counting on more than 20 members including permanent staff, postdoctoral researchers and PhD candidates. Dr. Delgado-Aguilar has published over 170 articles in high-impact journals and has a solid participation in national and international projects. His research group specializes in developing sustainable processes and techniques for creating high-performance, functional bio-based materials, innovative biocomposites, and nanomaterials. The group also incorporates a division dedicated to modeling and product ecodesign, facilitating the practical application of their research in the industrial sector. Dr. Delgado-Aguilar actively contributes to all areas of the group's research, particularly in developing structure-property relationships for cellulose nanomaterials. His work includes advancing machine learning models, collaborating on product development with industry partners, devising valorization strategies for underutilized materials, and developing high-performance cellulose-based materials for value-added applications, including emulsions, suspensions or coatings, among others. He maintains an active collaboration with the papermaking industry, focusing on tissue, packaging, and specialty papers, as well as chemical industries willing to transition from a linear to a circular bioeconomy. Dr. Delgado-Aguilar counts on a well-established collaborative network across the globe and is an active member of ACS Cellulose and Renewable Materials Division, TAPPI, and EPNOE.

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30 May 2025

10:00

Room Bertolini

CMIC I Mancinelli

Politecnico di Milano

Via Mancinelli, 7

20131 Milano

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