

## MC 11      **Triboelectric and piezoelectric nanogenerators: unleashing energy harvesting at the nanoscale I**

Tuesday, 3 September, morning

Chair: B. Wicklein, F. Aparicio

Room:

Hours	ID	Name	Type	Title
10h30-11h00	13514	Paula Ferreira	Invited	Understanding the potential of polysaccharides on the development of novel flexible piezoelectric materials
11h00-11h15	13764	C. Rodrigues	Oral	Harvesting Ocean Wave Energy: Assessing Triboelectric Nanogenerator Performance in Realistic Sea Environments
11h15-11h30	13012	Artur Baeta	Oral	Material and design comparison in Triboelectric Energy Harvester build by Fused Filament Fabrication
11h30-12h00	13678	Andris Sutka	Invited	The effect of polymer physicochemical properties on triboelectric response: towards mechanical energy harvesting
12h00-12h15	14731	Carlos Cobos	Oral	Boosted triboelectric generation in biodegradable nanoengineered PLA three-dimensional metamaterials
12h15-12h30	12602	Carlos Callaty	Oral	Finite-element simulations of nanoparticle-doped triboelectric materials towards nanogenerator performance enhancement
12h30-13h00	13373	Giuseppina Pace	Invited	2D-Materials and Hydrogels based on Triboelectric Nanogenerators (TEGs) for Mechanical Energy Harvesting and Self-Powered Sensing

## MC 11      **Triboelectric and piezoelectric nanogenerators: unleashing energy harvesting at the nanoscale II**

Tuesday, 3 September, morning

Chair: G. Pace, C. Rodrigues

Room:

Hours	ID	Name	Type	Title
16h00-16h30	13888	Luis Pereira	Invited	Functionalized fibre and wood structures for applications in mechanical energy harvesting
16h30-16h45	12847	B. Wicklein	Oral	Sustainable nanocomposite materials for tribo- and piezoelectric nanogenerators



16h45-17h00	13640	Harvey Amorin	Oral	Piezoelectric hybrid composites from biobased polymers and lead-free ferroelectric ceramic fillers
17h00-17h15	12781	P. Costa	Oral	Triboelectric, piezoelectric, and hybrid energy harvesting generation based on flexible and sustainable materials
17h15-17h30	13812	Ismael Domingos	Oral	Triboelectric devices with flexible graphene electrodes for energy harvesting and sensing solutions
17h30-18h00	12886	Francisco Aparicio	Invited	Vacuum and Plasma fabrication of Thin Films and 1D Nanoarchitectures for Energy Harvesting applications

**Poster session**

Thursday, 5 September, afternoon

ID	Name	Title
13065	V. Sanchez	KNN bionanocomposite materials for piezoelectric applications
13120	L. Pereira	Complex analysis of electrical and electronic properties of modified PLLA and PVDF-TrFE polymers as diverse platforms for piezo- and triboelectric energy harvesting