



## SPECIAL SESSION XXII

### Innovative and Sustainable Technologies For Railway Mobility

ORGANIZED AND CHAIRED BY

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Continuous Innovations regarding Power Electronics, Storage Systems, Innovative Power Sources as Fuel Cells involve the possibility of a further increase of the sustainability of rail transportation systems declined in all their variants such as High Speed Trains, Freight Trains, solutions dedicated to local or to Urban Transportation such as metro and Tramways. Important advances are related to improvement of non-electrified rolling stock (such as hybrid, fuel cell or battery-operated trains) but also to aspects associated with sustainable and innovative technologies applied to the infrastructure such as example Reversible Power Stations, Way-Side Storage Systems, integration of sustainable power sources and energy management technologies in railway systems. This session is dedicated to all the overcited topics that can be discussed in terms of design, simulation, testing and optimization.