

EMRails 2019

Electrical Measurements for Energy Management in Railway Systems

WORKSHOP

How the European research project MyRails can address the challenge of a sustainable, efficient, and interoperable European railway system

February 21, 2019

Museo Nazionale Ferroviario di Pietrarsa
Napoli-Portici



PROGRAMME

- 9:00** WELCOME & REGISTRATION
- 9:30** *180 Years since the Inauguration of Napoli-Portici, the First Italian Railway Line: a Short Historical Excursus*
Domenico Giordano, Istituto Nazionale di Ricerca Metrologica (INRIM)
- 9:40** *The European Research Project MyRails: Objectives and Expected Results*
Domenico Giordano, Istituto Nazionale di Ricerca Metrologica (INRIM)
- 9:50** *Energy Efficiency and Standardisation in Railway System. State of the Art and Future Perspectives*
Pietro Marmo, CENELEC TC 9-X Chair - Gianosvaldo Fadin, IEC TC9 Chair
- 10:10** *Innovation Technologies towards Energy Efficiency and High Performances in the Italian DC Railway System*
Irene Rossetta, Rete Ferroviaria Italiana (RFI)
- 10:25** *The European Metrology Institutes' Contribution to the Smart Electricity: the EMN*
Helko Van den Brom, Dutch Metrology Institute (VSL)
- 10:35** COFFEE BREAK
- 10:50** *The Efficient Management of the Whole Railway System: a New Paradigm*
Simone Danieli, Hasler Rail
- 11:10** *Simulation, Design, and Monitoring of Energy Storage Systems for Railway Applications*
Luca Pugi, Università di Firenze
- 11:30** *Remote Monitoring of Trenitalia Rolling Stock: the Telediagnostic System*
Alfredo Biancucci, Trenitalia
- 11:45** *Energy Efficiency in Railway Rolling Stock*
Giuseppe Graber, Hitachi Rail Italy
- 12:00** *Energy Dissipated by the Braking Rheostats: a Case Study*
Daniele Gallo, Università della Campania Luigi Vanvitelli
- 12:20** *PQ Events in DC Systems*
Domenico Giordano, Istituto Nazionale di Ricerca Metrologica (INRIM)
- 12:40** *Ecodriving: First Results from the European Research Project MyRails*
Paloma Cucala Garcia, Universidad Pontifica Comillas
- 13:00** LUNCH BREAK
- 14:00** *The New Calibration Facilities for AC EMFs*
Daniela Istrate, Laboratoire National de Métrologie et d'Essais (LNE)
- 14:20** *The New Calibration Facilities for DC EMFs*
Helko Van den Brom, Dutch Metrology Institute (VSL)
- 14:40** *Round Table: How Accurate Electrical Measurements can impact on Energy Efficiency and Predictive Maintenance*
- 15:40** COFFEE BREAK
- 16:00** VISIT TO THE MUSEUM