The Workshop is organized in the framework of the upscaling European project: ECOPADS - Eliminating Copper from brake PADS and recycling, funded by the EIT KIC Raw Materials. The main focus of the Workshop is one the key issues that inspired the Project action: reducing and certifying particulate matter emissions from vehicular brake systems.

This is an aspect that is gaining more and more pace for two main reasons. In the first place, the reduction in exhaust emissions has resulted in a relative increase of the emission budget from other sources associated with vehicular traffic: brakes, but also tires and road asphalt. In the second place, all these emissions will be there also when, in the end, the present vehicle fleet will be fully replaced by electrical vehicles.

These aspects will be discussed during the Workshop thanks to the contributions of leading experts in EU regulations, urban environmental monitoring, non-exhaust emission characterization.

9.00-9.30 Registration
9.30-9.45 Presentation of the Event
Stefano Gialanella, Department of Industrial Engineering, University of Trento, Italy
9.45-10.15 Keynote lecture: Brake particle emissions - challenges and solutions
Theodoros Grigoratos, Joint Research Centre, Ispra (Va), Italy
10.15-10.45 Invited lecture: Improving source apportionment in urban areas coupling advanced experimental and modelling approaches
Roberta Vecchi, Department of Physics, University of Milan, Italy
10.45-11.10 Coffee break
11.10-11.40 Blowing in the wind - notes on physical properties of the small scale airborne wear particles from brakes
Ulf Olofsson, Department of Mechanical Design, KTH Stockholm, Sweden
11.40-12.00 From the beginning: EU Projects on non-exhaust brake emissions
Luca Menapace, Brembo S.p.A., Stezzano (Bg), Italy
12.00-12.20 Ecopads project: Eliminating copper from brake PADS and Recycling
Mara Leonardi, Department of Industrial Engineering, University of Trento, Italy
12.20-12.50 How to: Brake pad development & emission evaluation
Matteo Redaelli & Mattia Alemani, Brembo S.p.A., Stezzano (Bg), Italy
12.50 Closing remarks
Light buffet lunch

Further info at: www.unitn.it/ecopads-workshop

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