WP.29 Working Party on Automated/Autonomous and Connected Vehicles (GRVA)

GRVA WORKSHOP ON ELECTRO-MECHANICAL BRAKING (EMB)

29-30 March 2023 at CLEPA offices in Brussels[1] - hybrid meeting

Please register before 17 March *via this google form*

TIME	PROGRAMME	
	Day 1 (10:00 – 18:00) *web-confcall link here*	
10:00 10:05 10:10 10:40 11:20	Welcome and introduction Outcome of the 15th session of GRVA Expectation – tour de table to explore participants views Overview of new technical concepts for Electro-Mechanical Brakes (a) For Heavy Duty Vehicles (excluding trailers) (b) For passenger cars - Brakes By Wire (BBW)	P. Alburno (CLEPA) R. Damm (Chair) All F. Seglo (CLEPA) H. Hunold (CLEPA)
	Lunch break (12:00 – 13:00)	
13:00 13:00 14:00 15:00	Traditional brakes and new concepts Commonalities, differences and impact of drive train (Closer review of new technical concepts and main challenges): (a) "Full" EMB for Heavy Duty Motor Vehicles I. System Board-net (Energy and Control transmissions) II. Energy Source, Supply, Storage and friction brake actuation III. Performance requirements for single failure (Traditional brakes vs. EMB)	 F. Seglo (CLEPA)
	Coffee Break (16:00 – 16:30)	
16:30 17:20 ➔18:00	(b) Provision of Energy for braking systems on passenger cars (ICE and BEV) (c) Hybrid brake system on passenger cars (e.g. hydraulic front-, electro mechanic rear axle)	H. Hunold (CLEPA) H. Hunold (CLEPA)

	Day 2 (09:00 – 17:00) *web-confcall link here*	
09:00	Past activities Brief review, structure, list and format of existing documents UN R13 and UN R13-H Scope of amendment and affected sections and paragraphs (Definitions, Specifications, Test requirements)	F. Seglo / H. Hunold (CLEPA) F. Seglo / H. Hunold (CLEPA)
	Lunch break (12:00 – 13:00)	
13:00	UN R13 and UN R13-H - Approach to harmonization e.g. Energy Transmission	F. Seglo / H. Hunold (CLEPA)
	Coffee Break (15:00 – 15:30)	
15:30 16:00 ➔17:00	- Approach to harmonization e.g. Energy Transmission (cont') Wrap up and next steps Format and structure of future work	 R. Damm (Chair)

[1] **WORKSHOP ADDRESS:** Cours Saint-Michel 30, 1040 Brussels