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LIVE-I PUBLIC EVENT

ITSWS5 - Experimental techniques for NVH of gear transmissions

T12 - Mid-high frequency vibroacoustics

November 15-17th, 2022 (<https://livei.fr/events/>)



About the LIVE-I project: The powertrain of the future needs to be environmentally friendly while maintaining vehicle dynamics and supporting active safety. The LIVE-I project aims to achieve technological advance in lightweight concepts of vehicle transmissions and to build an innovative training network. The technical objective of LIVE-I project is to demonstrate a significant weight reduction of gearboxes using advanced modeling tools together with advanced materials and systems and developing smart concepts in accordance with vibroacoustic comfort.

About this event: This LIVE-I event consists in several meetings and trainings scheduled on three days. All nine ESRs, recruited within the LIVE-I project, will participate in the event and will present their respective progress of their research. University of Napoli Federico II in collaboration with PowerFlex engineering will offer lectures, from both academy and industry, dedicated to experimental techniques for NVH of gear transmission. Finally, a private General Assembly will bring together all the members of the consortium, so that the global organization of the project, financial aspects, as well as the preparation of upcoming event will be discussed.

| Main training topics: | Speakers: |
|------------------------------------------------------------------------------------------------------|-------------------------------------|
| • Fundamentals of experimental techniques in vibro-acoustics | Dr. Mauro Fontana (PowerFlex) |
| • Evaluation of NVH phenomena through the analysis of vibro-acoustic measurements: some case studies | Prof. Massimo Viscardi (UniNa) |
| • Dynamic testing and simulations of gears and gearboxes | Prof. Francesco Pellicano (UniMoRe) |
| • Study of the behaviour of gear transmissions through vibrational analysis | Prof. Vincenzo Niola (UniNa) |
| • NVH development for best-in-class Hybrid & E-drive transmissions | Dr. Maurice Dietzel (MAGNA) |
| • Advanced experimental methods for failure detection in gears and bearings | Dr. Hugo SIWIAK (VibraTec) |

Further information: prof. F. Franco (UniNa), prof. G. Petrone (UniNa), Dr. Mauro Fontana (PowerFlex Engineering)

Registration: Participants from both academia and industry are welcome. Maximum number is 50. Participation is free of charge, but registration is mandatory before November 8th 2022. Registration forms available at <https://livei.fr/events/>

