National Technical University of Athens

COST Action DENORMS CA15125

Workshop 6 "Industrial days on new acoustic treatments, acoustic metamaterials and sonic crystals"

Athens (EL), 28th February-1st March 2019

Program

28th February - Administration Building of NTUA/Zografou Campus (*Central Conference Room*)

- ✓ **08:45 – 9:15 Coffee and registration**
- ✓ **09:15 – 9:30 Welcoming words**

Prof. E. Sapountzakis (NTUA Vice-Rector), A. Duval (Trèves Group), I. Antoniadis (NTUA)

09:30-10:00 M. Gontier (Recticel), *Technical polyurethane foam …. Acoustic performance through Chemical design*
10:00-10:30 P. Leroy (St Gobain), *Mineral wool and plaster board : Fabrication process, applications in buildings and opportunities for metamaterials*
10:30-11:00 R. De Oliveira (BASF), *Processing and chemistry for acoustic foams*
11:00-11:20 Coffee break
11:20-11:50 A. Duval (Trèves Group), *Microstructure morphology control of porous materials through processes: a manufacturing technology overview*
11:50-12:20 R. Venegas (Carbon Air), *Applications of multiscale porous materials in dynamics and acoustic*

- ✓ **12:20 - 13:00 WG1 meeting**
  Chairmen: D. Torrent (Univ. Jaume I, WG1 Leader) and T. Zielinski (IPPT PAN, WG1 co-Leader)
- ✓ **13:00 – 14:00 Lunch**

14:00-14:30 B. Van Damme (EMPA, Materials Science and Technology), *Dealing with nonlinearity: practical measurement and modeling strategies*
14:30-15:00 C. Perrot (MSME, Univ. Paris Est*), Multisclale prediction of acoustic properties for glass wools: Computational study and experimental validation*
15:00-15:30 I. Antoniadis (NTUA), *Active and passive noise mitigation activities in DSL, NTUA*
15:30-16:00 T. Zielinski (IPPT PAN), *Sound propagation and absorption in open-porosity media: Microstructure-based modelling and experimental validation*
16:00-16:20 Coffee break

- ✓ **16:20 - 17:00 WG2 meeting**
  Chairmen: B. Van Damme (EMPA, WG 2 Leader) and N. Dauchez (UTC, WG 2 co-Leader)
- ✓ **17:00 End of the day**

1st March – Administration Building of NTUA/Zografou Campus (*Central Conference Room*)

09:00-09:30 I. Perez (Dyson), *Designing for acoustics: Aero-Acoustics Research at Dyson*
09:30-10:00 S. Futatsugi (Embraer), *A preliminary study on the use of resonant acoustic metamaterial on aircraft noise control treatment*
10:00-10:30 L. Jaouen (Matelys), *Characterization and modelling challenges of multiple dynamics materials aka metamaterials*
10:30-10:50 Coffee break
10:50-11:20 S. Chen (AMG), *Acoustic Metamaterials for Noise Control*
11:20-11:50 J. Mardjono (Safran Group), *Overview of SAFRAN acoustic absorbing material for aircraft/cabin noise reduction and future challenges*

- ✓ **11:50 - 12:30 WG3 meeting**
  Chairman: A. Duval (Trèves group, WG3 Leader)
- ✓ **12:30 – 14:00 Lunch**
- ✓ **14:00 – 15:00 Poster session**

15:00-15:30 E. Deckers (KULeuven), *Vibroacoustic locally resonant metamaterials applications*
15:30-16:00 M. Cervenka (Czech Technical Univ. in Prague), *Optimized reactive silencers composed of elongated side-branch resonators*
16:00-16:30 P. H. Mereze (Coimbra Univ.), *Acoustic parameters dispersion of aeronautical materials used for noise control, and prospects studies about optimized pore geometry*
16:30-17:00 J.-P. Groby (LAUM, UMR CNRS 6613), *Control of the acoustics waves in the subwavelength regime: metamaterials for perfect absorption and metadiffusers*

- ✓ **17:00 - 17:10 Closing Ceremony**
- ✓ **17:00 End of the Day**