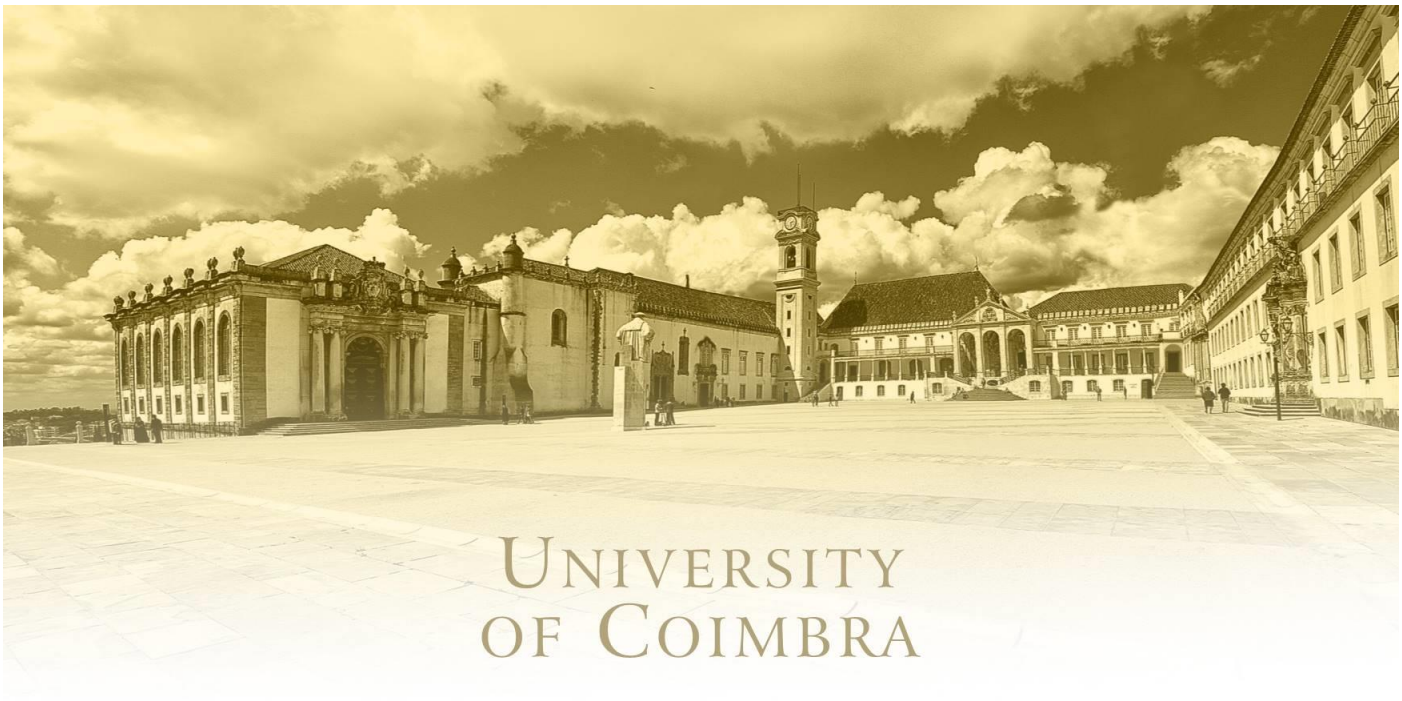
DENORMS Action CA15125

Final event Program

Coimbra (Portugal), 18-21 February 2020



The COST funding for four years of networking activities is coming to an end. To celebrate the networking achievements of the these four years, the DENORMS Action Final event will take place from 18th to 21st Feb. 2020 in Coimbra (Portugal) and will be the occasion of promoting the Action's breakthroughs.

COST is supported by the EU Framework Programme Horizon 2020.

Time Schedule

Tuesday 18th Feb.

*Amphitheater **ACIV** (Floor 2), Department of Civil Engineering, Faculty of Sciences and Technology, Pólo II campus (Rua Luis Reis Santos, 3030-788 Coimbra)*

- **15h00 – 17h00** : **MC meeting** (**only for MC members**)

Wednesday 19th Feb.

*Auditorium **Laginha Serafim** (Floor 3), Department of Civil Engineering, Faculty of Sciences and Technology, Pólo II campus (Rua Luis Reis Santos, 3030-788 Coimbra)*

Presentation from selected STSM (Short Term Scientific Mission) awarded researchers and Working Group meetings

---

- **8h30** Registration
- **9h00** Welcoming words and opening ceremony

Session 1 (9h20 – 11h20): Chair Alejandro Cebrecos

- **9h20 – 9h45** Camille Perrot (LMSME, UMR CNRS 8208, Univ. Paris Est), *Identification of representative volume elements of glass wool panels*
- **9h45 – 10h10** Vicente Romero-García (LAUM, UMR CNRS 6613), *Plate-type acoustic metamaterials for acoustic absorption*

  - *10h10 - 10h30 Coffee break*

- **10h30 – 10h55** Milan Cervenka (Czech Technical University in Prague), *Compact wideband reactive silencers with annular resonators*
- **10h55 – 11h20** Noé Jiménez (I3M, CSIC-Universitat Politècnica de València), *How to design thin sound diffusers for room acoustics based on metasurfaces: metadiffusers*

  - *11h20 - 11h30 Break*

11h30 – 12h00 Working Group 1 meeting

- *12h00 - 13h00 Lunch break*

✓ **Session 2** (13h00-14h40): Chair Jesus Carbajo

- **13h00 – 13h25** Stefan Dimitrijevic (University of Belgrade), *Sound Insulation and Reflection Properties of Sonic Crystal Barrier Based on Micro-Perforated Cylinders*
- **13h25 – 13h50** Viktor Hurska (Czech Technical University in Prague), *Transmission and generation of sound in corrugated duct*
- **13h50 – 14h15** Lluis Garcia Raffi (Univ. Politècnica de València), *Acoustic stealth materials*
- **14h15 – 14h40** Alejandro Cebrecos (Univ. Politècnica de València), *Statistic effects in soft architected metamaterials*

  - *14h40 - 14h50 Break*

- **14h50 – 15h20** Working Group 2 meeting

  - *15h20 - 15h40 Coffee break*

- ✓ **Session 3** (15h40-17h20): Chair V. Hurska
    - **15h40 – 16h05** Eric Ballestero (London South Bank University), *Measuring the Scattering Properties of a 3D-Printed Acoustic Metadiffuser*
    - **16h05 – 16h30** Bart Van Damme (EMPA), *Modelling acoustic absorption of perforated gypsum foams*
    - **16h30 – 16h55** Tao Yang (Technical University of Liberec), E*stimating non-acoustical parameters of polyester fibrous material via Bayesian inversion procedure*
    - **16h55 – 17h20** Jesus Carbajo (Univ. of Alicante), *Manufacturing techniques for perforated metamaterials*
        - *17h20-17h30 Break*
- **17h30 – 18h00** Working Group 3 meeting

20h Diner at Restaurant *Solar do Bacalhau* -Rua da Sota, 12, Coimbra- (EUR 23.50 to be paid at the registration desk)

Thursday 20th Feb.

*Auditorium **Laginha Serafim** (Floor 3), Department of Civil Engineering, Faculty of Sciences and Technology, Pólo II campus (Rua Luis Reis Santos, 3030-788 Coimbra)*

- ✓ **Morning session: Presentation and dissemination of the Round Robin Tests** – Chairs: Nicolas Dauchez and Olga Umnova
    - **8h50 – 9h20** Tomasz G. Zielinski (IPPT PAN), *Round-Robin Test on 3D-printed Sound Absorbing Porous Materials*
    - **9h20 – 10h20** Chiara Scrosati (Italian National Research Council), *Round Robin Test on low frequencies in impedance tube and reverberation room*
        - *10h20 - 10h50 Coffee Break*
    - **10h50 – 11h35** Paolo Bonfiglio (Materiacustica srl), *Round Robin test on elastic properties of poro- and viscoelastic materials for vibro-acoustic applications*
    - **11h35 – 12h00** Fabien Chevillotte (Matelys - Research Lab), *Porous materials and their standards as of 2019*
        - *12h00 - 13h30 Lunch break*
- ✓ **Afternoon session: Scientific presentations from internationally recognized researchers** – Chairs: Tomasz Zielinski and Arnaud Duval
    - **13h30 – 14h** Daniel Torrent (Univ. Jaume I), *Advanced artificial structures for the control of acoustic, mechanic and thermal energy*
    - **14h00 – 14h30** Gautier Lefebvre (Univ. Technologie Compiègne), *Prediction of localization in 2D disordered vibrating systems*
    - **14h30 – 15h** Laurent De Ryck (Siemens - PLM Software), *On the psychoacoustics of metamaterials: A comparative listening test and design recommendations*
        - *15h00 - 15h30 Coffee break*
    - **15h30 – 16h00** Lucas Van Belle (KULeuven), *Measuring dispersion curves for vibro-acoustic metamaterials*
    - **16h00 – 17h00** Arnaud Duval (Trèves) and Fabien Chevillotte (Matelys - Research Lab), *White book on industrial problems*
        - **17h05** *Closing ceremony*

19h30 Walking tour in the old campus of the University of Coimbra (Polo I) – Meeting Point lateral entrance of the Botanic Garden / Arches of the Aqueduct São Sebastião

20h30 Diner at the 5 star luxury historical Hotel Quinta das Lágrimas - Rua António Augusto Gonçalves, Coimbra - (EUR 23.50 to be paid at the registration desk). The bus round trip from the city centre to the hotel and back is organised

Friday 21st Feb.

Science Museum of the University of Coimbra, Pólo I campus (Largo Marquês de Pombal, 3000-272 Coimbra)

- ✓ **Popularization talks** – Chairs: Bart Van Damme and Daniel Torrent
  - **9h15 – 9h30** Welcoming words
  - **9h30 – 10h30** Vincent Tournat (LAUM, UMR CNRS 6613), *General Acoustics*
    - *10h30 - 11h00 coffe break*
  - **11h00 – 12h00** Bruno Fazenda (Univ. of Salford), *Rooms Acousitcs*
    - *12h00 - 14h00 Lunch break*
  - **14h00 – 15h00** Mathieu Gaborit (KTH) and Marco Miniaci (IEMN, UMR CNRS 8520), *Acoustic materials*

- ✓ **Visit of the Science museum and exhibition "Acoustics and beyond" vernissage**
  - **15h10** Visit of the Science museum of the University of Coimbra and of the temporary exhibition *Acoustics and beyond*
  - **16h00** *Acoustics and beyond* vernissage

Venue

The 18th,19th and 20th Feb. sessions will be held in the **Faculty of Sciences and Technology**, Department of Civil Engineering, in the Pólo II campus (Rua Sílvio Lima, 3030-790 Coimbra).
The popularization talks and exhibition vernissage will be held in the **Science Museum of the University of Coimbra**, in the historical Pólo I campus (Largo Marquês de Pombal, 3000-272 Coimbra).



Local Transportation

Coimbra is served by a public transportation Bus network which covers the urban area. The Bus lines that serve the campus “Polo II” are « 34 – Universidade – Pólo II da Universidade » and « 38 – Planalto Sta. Clara (Fórum) – Pólo II da Universidade ». Bus lines “28 – Universidade – Bairro do Ingote”, « 34 – Universidade – Pólo II da Universidade » and “B” serve the old campus, “Polo I”.

Timetables can be consulted in the website of “Transportes Urbanos de Coimbra” (S.M.T.U.C.), at http://www.smtuc.pt/en/. An overview of the network can be found at http://www.smtuc.pt/wp-content/uploads/2018/12/Mapa-redeTransportes.jpg

Internet connection

eduroam hotspots are available thorough the Coimbra University. An open WiFi network named “uc-events” is also available.