SONORUS

UNIVERSITEIT GENT

INTEC

Scope

The first winter school deals with the topic of urban sound propagation, and includes lectures on wave propagation, noise mapping, numerical sound propagation, and various hands-on workshops. In addition, it is a unique opportunity to meet all SONORUS participants, the different research groups involved, and also the city representatives. The case studies that will be studied as part of the 3-year Sonorus training program will be initiated. Successfull attendence, including passing a small examen at the end of the week, will be granted with ITN eduction credits. This winter school is obligatory for the Early Stage Researchers (ESR) from the SONORUS Initial Training Network (ITN). In function of availability, external participants will be allowed.

Venue

This one-week winterschool is held at and organized by the Acoustics Research Group from Ghent University. Location : Sint-Pietersnieuwstraat 41, Ghent, Belgium. Contact : Timothy Van Renterghem (tvrenter@intec.ugent.be)

Social program

Social activities will be organized in the evening to allow participants to network in a relaxed atmosphere.

Accomodation

Suggested accomodation is "Aparthotel Castelnou". A number of rooms have been reserved for Sonorus participants at reduced rates (down to 67,50 euro/night). Participants should book themselves, mentioning "Sonorus winter school" to benefit from it.

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Program

	Monday	Tuesday	Wednesday	Thursday	Friday	
9	Welcome by coordinator and general concept of SONORUS (Wolfgang Kropp)					9
					urban quiet sides (Maarten Hornikx)	
	Scientific research at the SONORUS partners	basics of sound propagation (Dick Botteldooren)	basic concepts in GIS (Luc Dekoninck)			
10				hands-on workshop noise quantities and analysing measurements (Bert Decoensel, Dick Botteldooren, Jian Kang)	Hands-on workshop numerical modelling in urban geometries (Timothy Van Renterghem, Maarten Hornikx, Kurt Heutschi)	10
	pause	pause	linking road traffic modelling and noise (Bert Decoensel)			
	Urban noise planning in the bigger context (Juergen Bauer)	Sound interaction with materials (Jens Forssen)				
11			pause			11
		Meteorological effects on sound propagation (Timothy Van Renterghem)	ISO 9613-2 and noise mapping software (Erwin Hartog van Banda)			
		Urban sound propagation (Timothy Van Renterghem)				
12						12
13	Presentation of the ESRs : background and planned activities		hands-on workshop noise mapping with Predictor software (Erwin Hartog van Banda)	geometrical acoustics (Jian Kang)	written exam	13
14		*SONORUS partner meeting for project partners (13.30 - 18 h)/Group discussion by the ESRs around the case studies (13.30-15.30 h)*		time domain modelling (Timothy Van Renterghem, Maarten Hornikx, Kurt Heutschi)		14
15	SONORUS training program (Nicole van Hout)					15
				pause		
	presentation of case studies by city partners or their representatives (Antwerp, Rome, Brighton, Gothenborg, Rotterdam) : context, boundary conditions and expectations. Tasks for the group work at the second day			frequency domain modelling (Dick Botteldooren)		
16			Noise mapping in practice and the Environmental Noise Directive (Beate Altreuther)			16
				Noise reduction by natural means (Jens Forssen)		
17						17
18						18

SONORUS network research workshop

SONORUS winter school