



Sustainable Soundscape: Towers and Courtyards in Dense Urban Form

Dense urban form proposes a specific architectural language in which aspects such as building heights, shared spaces or more generally the question of **interfaces on building façades** play an important role in constituting ordinary listening and changing sound practices. Providing a dynamic relation to the surrounding, varying from ground to sky, from near to far or from intimacy to exposure, the dense habitat brings out remarkable listening situations: bird-eye listening, immersion, enclosure, panoramic soundscape, double listening, acoustic exposure or recess.

What potentials can this density offer to residents and inhabitants in terms of sonic qualities? In this summer school, we will work on the pairing space-sound focusing in the so-called eco-districts as a type of habitat seeking sustainability. We have chosen two districts in Grenoble: Vigny-Musset, Caserne de Bonne and the Three Towers de l'Île Verte. In this context, we are particularly interested in two archetypal dense urban forms: towers and courtyards, defining protrusions and hollows. The interfaces located at the articulation between private and public spaces, such as balconies, loggias, corridors and landings, form shared sound spaces. They are as much configured by the **sound qualities** of the street as they themselves configure the sound qualities of the latter. It is in this reciprocal exchange that we shall consider these liminal spaces, in the way that they redraw new acoustic arenas and negotiate their intimacy with public spaces.

The approach proposed to the participants will be elaborated by a set of **methods, both qualitative and quantitative**. After the experience *in situ* which helps distinguishing the different sonic characteristics of the site, participants are invited to manipulate sound dimension by means of various methods developed at Cresson-AAU: sound recordings, interviews, parametric sound modeling... At the end of the workshop, it is required to **elaborate a soundtrack** reflecting the way each group of participants perceives, conceives or projects the **sonic ambiance of the space**.

Program

	Lundi 3	Mardi 4	Mercredi 5	Jeudi 6	Vendredi 7	Samedi 8
9h00-10h00 Intervention théorique	<i>Introduction to the workshop on sustainable soundscape, objectives and A round table introduction of participants</i>	Jean-François Augoyard : <i>What is a sound space?</i>	<i>In situ Recordings</i> (NGS & HA à VM) (JuL & SS à CDB)	Noha Gamal Said Project Esquis'Sons	Atelier (ENSAG) elaborating the soundtracks	Olivier Balaÿ What type of soundscapes in the Confluence eco-district?
10h15-11h15	Nicolas Tixier <i>Presentation of Cresson research center</i>	Jean-François Augoyard : <i>Sonic Effects</i>	<i>In situ Recordings</i> (NGS & HA à VM) (JuL & SS à CDB)	Théo Marchal <i>Introduction to acoustics & Esquis'Sons tool</i>	Atelier (ENSAG) elaborating the soundtracks	Insitu listening experience_Guided tour Quartier de Confluence-Lyon
11h15-12h30	Jean-Paul Thibaud <i>Social practices and ecological transition</i>			Françoise Aquier <i>Documenting Sounds</i>		
12h30-14h00						
14h00-15h00	Pascal Amphoux <i>The city, the tower and the courtyard : active listening and reactive listening</i>	<i>Setting up the working groups & presenting recording materials</i>	Thea Manola <i>"Soundscapes in "sustainable "urbain projects: between unthought and opportunity"</i>	Atelier (ENSAG)	Final Presentation and exposition	Departure
15h15-16h15	<i>Insitu listening experience</i>	<i>In situ recordings</i> (NGS & JuL à VM) (HA&SS à CDB)	Julien Maccoisan <i>Audacity Audition & sound manipulation</i>			
16h30-19h30			<i>In situ recordings</i> (NGS & JuL à VM) (HA&SS à CDB)			

6 Supervisors :

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