Enpc16

Course title: Urban Water and Waste Management History in Paris: from Lutece to the Greater Paris, over 2 000 years of projects and construction works (course organized and managed by the Ecole des Ingénieurs de la Ville de Paris and the Ecole Nationale des Ponts et Chaussées)

Institution: Ecole des Ponts ParisTech

Course address: ENPC 6-8 av. Blaise Pascal Champs sur Marne
EIVP 80 rue Rébeval 75019 Paris

City: Marne la Vallée (Champs sur Marne) et Paris

Minimum year of study: 3rd year

Minimum level of English: Good

Minimum level of French: Good

Key words: Water and Municipal Solid Waste Management, History, Culture, Public Services, Technology

Language: English

Professor responsible: Emmanuel Adler

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Participating professors: Emmanuel ADLER (Ecole des ingénieurs de la Ville de Paris).

Number of places: Minimum: 10, Maximum: 30, Reserved for local students: 0

Objectives: The city of Paris, erected over 2000 years ago on the premises of the Seine river, has been modeled through the centuries by many construction works intended to facilitate the life of its inhabitants, in terms of urbanization, transportation, and water supply, but also sanitation, flood control and municipal solid waste management.

As an example, various infrastructures have long been implemented in order to supply fresh waters to the city, from the first Roman aqueduct of Arcueil, to the fire pumps of the Perier Brothers at the corner of the French Revolution, and the outstanding network erected by Eugene Belgrand, the famous hydrologist and engineer, in the second part of the 19th century.

Regarding sanitation and river quality, it should be recalled that Paris has not always been equipped with 6 up-to-date sewage purification plants, and that large irrigation fields associated with sewage farms were
operated until the mid-20th century in the outskirts of Paris. 
Last but not least, issues associated with flooding, especially the 1910 
catastrophe, will also be analyzed. 
Focused on technical, cultural and social issues, this class will address 
various aspects of urban water & waste management through the example 
of the history of the city of Paris.

With 4 specialized conferences in the morning (monday to tuesday), the 
participating students shall gain a good overview of the passed and 
current history of water & waste management in Paris. In order to 
complete this theoretical part, various visits will be organized with major 
stakeholders in Paris and its suburbs to discover passed and current 
infrastructures.

During this seminar, a “mini-project” will be performed by the students in 
order to produce a brief document focused on one the aspects studied 
during the week (drinking water, sanitation, flood control, waste 
management...).

Prerequisites
Good knowledge in English.
Basic scientific knowledge.

Course exam
The students shall present their work on the last Friday for evaluation by 
the professors.