

Urban sewerage and drainage planning : design and management of projects

Targeted audience

Managers for the water , sewage and drainage management.
Political, technical and administrative decision-makers.

Objectives

This seminar, thanks to French experience, acquired particularly in large cities like Toulouse , will enable the participants:
To learn the integrated approach methods to urban drainage, the diagnosis of existing systems and the preparation of investment and management methods of drainage services,
To draw up technical and financial specifications for projects,
To learn the different techniques for communication and control for work and services that are sub-contracted.
This course will also improve the participants knowledge of the constraints of the private sector as the public sector, and their understanding of how each one operates, something that is vital for success of common projects.

Paris	From Monday June 24th to Friday July 5th 2012	Registration : Tél : +331 4251 6111 Fax : +331 4251 6131	Session n°34003	5 460 €+ TVA Lunch included
--------------	--	--	------------------------	--

Coordination : Mr. Martin SEIDL, CERVE / H2O
Organisation : [Mrs Virginie PAC / Metratech](#)

Monday June 24th

General information on the sewerage and water management

Institutional framework and operation of the Agencies
Price of the water and management of the public services of water and cleansing

Mrs. Maria SALVETTI
Agence de l'eau Seine Normandie

Tuesday June 25th

The European Directives and its contents in term of economic analysis, and economic characterization of the uses of water

Mr. Sophie NICOLAI
Agence de l'eau Rhine-Meuse

Wednesday June 26th

Networks of urban sewerage, dimensioning

Collective networks for rain water, design and dimensioning

Mrs. Mounira KAFI
CERVE ENPC

Thursday June 29th

Alternative techniques of management of rain water

Principles, interest
Applications/Examples

Christian PIEL
Composante Urbaine

Friday June 30th

Alternative techniques of management of rain water

Principles, interest
Applications/Examples

Mr. Thierry MAYTRAUD
General Council 93

Monday July 1st

Techniques of purification

Characterization of waste water
Basic parameters and measurements
Treatment: decantation/
flocculation/aerobic/anaerobic

M. SEIDL

Tuesday July 2nd

Collective treatment of waste water (1)

"traditional" techniques:
- digesters/UASB
- activated sludge
- bacterial beds/biodisques...

M. SEIDL

Wednesday July 3rd

Collective treatment of waste water (2)

Alternative techniques "extensive":
- Lagunage
- Purification by infiltration
- planted filter Beds of reeds
- Lagunages with macrophytes/microphytes...
Balance sheet technical and of the dies

M. SEIDL

Thursday July 4th

Technical visits

M. SEIDL

Friday July 5th

The planning of the sewerage networks
To treat to re-use ?
Planning: concepts, tools, methods

M. SEIDL