

Innovative Sludge Pre-Treatments (ISP)

Valladolid, Spain

COURSE PROGRAMME

SUNDAY, 23rd JUNE

9:00-9:15	Course opening
9:15 – 10:15	Sludge pretreatment and energy balance in WWTP <i>Sara I. Pérez/Fernando Fdz-Polanco</i> <i>University of Valladolid</i>
10:15 – 11:15	Pretreatment Technologies (1) – Review <i>Hélène Carrere</i> <i>INRA (France)</i>
11:15 - 11:45	Coffee break
11:45 – 12:45	Modelling the pretreatment effect <i>Andrés Donoso</i> <i>INRIA-Chile</i>
12:45 – 13:30	Open Forum & Discussion Session <i>(Lecturers and students)</i>
13:30 - 15:00	Lunch
15:00 – 18:30	Practicum <i>(A01-1hour, A02-1hour & A03-1.5hour)</i>

MONDAY, 24th JUNE

9:00 – 11:30	Thermal Hydrolysis <i>Paal J. Nilsen / Jesús A. Cacho / Pedro P. Nieto</i> <i>Cambi / Veolia Environment / Agbar</i>
11:30 – 12:00	Coffee break
12:00 – 12:40	Round table <i>(Lecturers and students)</i>
12:45 – 13:45	Practicum <i>(A04- 1 hour)</i>
13:45 – 14:00	Closure of the course

IMC COURSE DETAILED SUMMARY

- Course language: English
- Number of participants: 20
- Total hours: 12 (theoretical and practicum)
- Practicum groups: 5
- **Practicum activities:**
 - ▶ A01: From BMP tests to continuous operation
 - ▶ A02: Sludge characterisation techniques
 - ▶ A03: Pretreatment 1: sonication and temperature phased
 - ▶ A04: Pretreatment 2: thermal hydrolysis



SOCIAL PROGRAMME

- Coffee breaks at the EII Cafeteria (natural and relaxed environment).
- Lunch at the EII Restaurant

ORGANISATION

Coordinator:

Dr. Sara Isabel Pérez Elvira

Group of Environmental Technology
University of Valladolid
www.iqtma.uva.es/envtech



Universidad de Valladolid