Instrumentation, Modelling & Control (IMC)

Santiago de Compostela, Spain

COURSE PROGRAMME

SUNDAY, 23rd JUNE

9:00-9:15	Course opening
9:15 – 10:30	**Instrumentation & Monitoring** ***Dr. Gonzalo Ruiz*** *Catholic University of Valparaíso (Chile)*
10:30 – 11:45	**Control and Automation** ***Dr. Eugénio Ferreira*** *University of Minho (Portugal)*
11:45 - 12:15	*Coffee break*
12:15 – 13.30	**Modelling of Anaerobic Digestion** ***Dr. Damien Batstone*** *University of Queensland (Australia)*
13:30 - 15:00	*Lunch*
15:00 – 16:15	**Case Studies** ***Dr. Jean Philippe Steyer*** *INRA (France)*
16:15 – 18:30	**Open Forum & Discussion Session** *(All lecturers and students)*

MONDAY, 24th JUNE

9:00 – 11:00	**Practicum** *(ETSE Pilot Plant Hall & Computing Lab)*
11:00 – 11:30	*Coffee break*
11:30 – 13:30	**Practicum** *(ETSE Pilot Plant Hall & Computing Lab)*
13:30 – 13:45	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 devices with pilot-scale plants:**
  - A01: Fully automated pilot-scale UASB reactor
  - A02: Hybrid Anaerobic Aerobic Membrane biological reactor
- **Practicum software activities:**
  - A03: Modelling anaerobic digestion using ADM1
  - A04: Virtual plant for the anaerobic co-digestion of multiple organic substrates
  - A05: Biothane SMART control

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SOCIAL PROGRAMME

- Coffee breaks at the ETSE Cafeteria (natural and relaxed environment).
- Lunch at the Grand Hotel Santiago

ORGANISATION

Coordinators:

Dr. Francisco Omil
Dr. Jorge Rodríguez

Group of Environmental Engineering and Bioprocesses
University of Santiago de Compostela
www.usc.es/biogrup

Escola Técnica Superior de Enxeñería

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