



ECO-FRIENDLY AND ENERGY EFFICIENT SEWAGE SLUDGE DEWATERING THROUGH NOVEL NANOMATERIALS AND ELECTRO-OSMOTIC PROCESS

ELECTRODEWATERING “2.0”: A NEW FRONTIER IN SLUDGE TREATMENT TECHNOLOGY

To whom it may concern,

I am delighted to invite you to the final conference of the **SLUDGEtreat Project** (www.sludgetreat.eu) that will take place at **Politecnico di Milano** in Milan on **February the 8th 2019**.

The SLUDGEtreat Project is a EU FP7 Marie Curie Action – Project Number 611593 – that started in September 2014 and will be ending by February 2019. It is focused on the design and development of a proof-of-concept electro-dewatering machine. The project includes the study of the electro-osmosis process applied to sewage sludge and the investigation of novel eco-friendly nanomaterials and coating techniques able to minimize the corrosion of the anode. The main scope of the SLUDGEtreat project is to prolong the life cycle of sewage sludge, by (i) improving sludge quality and (ii) increasing the percentage of sludge dry matter up to 50%.

In addition to the main outcomes of the SLUDGEtreat Project, the program includes a panel discussion of outstanding representatives from the water and wastewater sector such as Ludovico Spinosa (member of International Water Association, Waste Association, and Convenor at UNI/CEN), and Pascal Ginisty (Manager of CEOPS – Separation Process Study and Optimization Centre – at IFTS). This event is targeting water utilities, water boards, policy makers and academics.

When Friday 8th of February 2019 at 9:00 am

Where Aula Rogers at Politecnico di Milano, Via Andrea Maria Ampère, 10, 20133 Milano (MI)

Registration Attendance is free, but due to the limited capacity of the facilities we strongly recommend to register as soon as possible, and always before December 15th, at [this link](#)

Program

9:00 – 9:30	Registration of participants
9:30 – 9:40	Welcome to the participants (A. Guadagnini, director of DICA POLIMI)
9:40 – 9:45	Introduction to the Conference (R. Canziani, DICA POLIMI)
9:45 – 10:15	Role of dewatering in sludge treatment and management (L. Spinosa, UNI, CEN)
10:15 – 10:45	Innovation in sludge dewatering (P. Ginisty, IFTS – CEOPS)
10:45 – 11:00	The SLUDGEtreat project: overview of the project and aims (R. Canziani, DICA POLIMI)
11:00 – 11:20	Coffee break
11:20 – 13:30	The SLUDGEtreat project: from concept to industrial application
11:20 – 11:50	Lab scale tests (S. Visigalli, DICA POLIMI)
11:50 – 12:30	Materials for the anodes (C. Diaz, AIN; M. Cruz, FLUBETECH)
12:30 – 13:00	The EDW prototype (G. Di Florio, X2 Solutions)
13:00 – 13:30	LCA and economic assessment (A. Turolla, DICA POLIMI)
13:30 – 14:30	Lunch break
14:30 – 16:30	What the Water sector thinks about EDW Round table discussion

Invited speakers



LUDOVICO SPINOSA

Convenor at European Committee for Standardisation (CEN)

Ludovico Spinosa holds a master's degree in mechanical engineering (University of Rome, 1969) and has more than 40 years of experience in Water, Wastewater and Waste. He was Assistant Professor in Agricultural Hydraulics at Bari University, Contract Professor in Ecology at Calabria University and in Waste Engineering at Lecce University, and Guest Professor at Harbin Institute of Technology. He was National Delegate at the EEC Concerted Action COST 681 on sludge, and Chair of the IWA Specialist Group on Sludge Management. At present he is Member of the Technical Committees for Sludge Standardization CEN/TC308, with coordination of the Working Group 1 on Process control methods, and ISO/TC275, with coordination of the Working Group 6 on Thickening and Dewatering. In 2009 he got the IWA-SGSM Specialist Medal in Residuals Research. Co-editor of the book *Sludge into Biosolid*, he is author of more than 250 scientific papers. He co-ordinated the development of environmental studies for EU, and organized international and national meetings. Senior Scientist at National Research Council in Italy, where coordinated the research projects on sludge management, he has also been in charge with the coordination of technical activities at the Commissariat for Environmental Emergency in Apulia Region in the fields of wastes, wastewaters and restoration of contaminated sites.



PASCAL GINISTY

Chief Scientific Officer of IFTS (Institute of Filtration and techniques of separation) and Manager of CEOPS (department of IFTS) – Separation Process Study and Optimization Centre

Pascal GINISTY, 48 year's old, obtained his diploma in Process Engineering in 1994 (National School of Engineers in Chemical Engineering – Nancy) and performed a PhD work in biosorption of heavy metals from industrial effluents in nuclear industry (Commissariat of Atomic Energy-Cadarache) and obtained his degree in 1999. He works as research and study manager for IFTS since 2000, and has performed more than 500 studies of solid liquid separation topics (liquid clarification, solids concentration) for customers coming from different industries. His collective research activities are mainly dealing with sludge flocculation, thickening and dewatering, concentrated suspensions treatment, high value molecules extraction and was involved in different national projects. He's author or co-author of around 50 scientific papers on these topics. He became 5 years ago the Chief Scientific Officer of IFTS and managed the scientific resourcing for collaboration with universities. He's involved since 2005 in sludge standardization activities in CEN and ISO groups (TC 308/WG1 and TC 275/WG6) as project leader/expert for different standards and guidelines of good practice. He's member of organization and/or scientific committees of different scientific congresses (Francofilt, FPS, Filtech, IWA PS, ECSM, WFC).

SLUDGEtreat Project partners



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Roberto Canziani
SLUDGEtreat coordinator