

## Programme

1<sup>st</sup> day

9<sup>th</sup> September, THURSDAY

8.00-9.00 Registration  
*Optional: Half day "Ladies" Programme for special participation fee*

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9.00-9.30 **Opening speeches**

– **Chairman: Dr. László Kovács** (KSZGYSZ, Hungary)

**Dr. István Kling** (Ministry of Rural Development, Hungary)

**Prof. Angélique Léonard** (University of Liège, Belgium)

**Prof. Endre Juhász** (President of the Organising Committee, Hungary)

9.30-10.00 **Keynote speech: István Zsirai** (GE Water Technology, TREVOSE, USA)  
Sludge, as a renewable resource

10.00-10.20 Coffee break

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### 1<sup>ST</sup> TOPIC: DEWATERING

– **Chairman: Mr. József Ányos** (MAVÍZ, Hungary)

10.20-10.40 **F. Zsabokorszky** (Enqua Ltd., Hungary)

Changing in social politics (environmental) attitude towards the use of sewage sludge (from barriers to opportunities)

10.40-11.00 **Dr. A. Ayol** (Department of Environmental Engineering, Dokuz Eylul University, Turkey)

Dewaterability of waste activated sludge with thermal conditioning

11.00-11.20 **M. Raynaud** (Cemagref, UR TSCF, France)

Effect of cations on activated sludge dewatering

11.20-11.40 **Dr. J. Stadler** (COMPAT-Licencia Trading Co. Ltd., Hungary)

LIGNIMIX – a new process to decontaminate and stabilize municipal sewage sludge and liquid manure of animal farms

11.40-12.00 **E. Dieude-Fauvel** (Cemagref, UR TSCF, France)

Sludge conditioning: impact of polymers on flocs structure

12.00-12.20 **P. Ginisty** (FTS, France)

New laboratory developments for sludge flocculation

12.00-12.20 Questions, comments

12.20-13.30 Lunch

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### 2<sup>ND</sup> TOPIC: DRYING

– **Chairwoman: Prof. Angélique Léonard** (University of Liège, Belgium)

13.30-13.50 **F. Cousin** (Degremont Technologies, Switzerland)

New development of the highly efficient sludge drying process INNODRY 2E®

13.50-14.10 **L. Fraikin** (Laboratory of Chemical Engineering, University of Liège, Belgium)

Impact of storage at 4°C on the study of sludge drying emissions

14.10-14.30 **E. Vega** (Laboratory of Chemical and Environmental Engineering, University of Girona, Spain)

Odour emissions from undigested sewage sludge drying

- 14.30-14.50 **Prof. A. Léonard** (*Laboratory of Chemical Engineering, University of Liège, Belgium*)  
Impact of liming operating conditions on the convective drying kinetics of urban residual sludges
- 14.50-15.10 **J. Geyer** (*Andritz Fließbett Systeme Ravensburg, Germany*)  
Sewage sludge – valuable resource generated by drying
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- 15.10-15.40 Questions, discussion
- 15.40-16.40 **Poster section**, Coffee break
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### 3<sup>RD</sup> TOPIC: DIGESTION - HYDROLYSIS

– **Chairman: Mr. György Palkó** (*FCSM, Hungary*)

- 16.40-17.00 **Prof. A. Morán** (*Chemical Engineering Dept. IRENA, University of León, Spain*)  
Anaerobic digestion of high lipid content wastes
- 17.00-17.20 **J. Zabranska** (*Institute of Chemical Technology Prague, Czech Republic*)  
Influence of mixing improvement on anaerobic sludge digestion efficiency
- 17.20-17.40 **L. van Dijk** (*Sustec, consulting and contracting, The Netherlands*)  
Thermal Hydrolysis of secondary sludge prior to digestion: TurboTec® Pilot study in Venlo
- 17.40-18.00 **M. Besson** (*IRCELON, Université de Lyon, France*)  
Production of volatile fatty acids (VFA) by wet air oxidation of sludges
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- 18.00-18.20 Questions, discussion
- 19.00 Gala Dinner on Zsófia Ship on the Danube (*Bus transfer provided*)  
**Heine Sveistrup Jensen** (*Hungarian Consul General to Denmark*) gives a toast.
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2<sup>nd</sup> day **10<sup>th</sup> September, Friday**

- 8.30-9.00 **Keynote speech**  
**Prof. F. Ligetváry** (*Szent István University, Hungary*)  
Reuse of sludge in agriculture
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### 4<sup>TH</sup> TOPIC: MISCELLANEOUS

– **Chairman: Prof. Ludovico Spinosa**

(*C.N.R. c/o Commissariat Env. Emerg. Apulia Region, Italy*)

- 9.00-9.20 **Prof. Dr. Habil. H. Bayoumi Hamuda** (*Environmental Protection Engineering Institute, Óbuda University Hungary*)  
Impacts of municipal sewage sludge on dynamics of organic matter and biological activities in clay loam brown forest soil
- 9.20-9.40 **P. Legrand** (*Laboratoire Génie de l'Environnement Industriel, Ecole des Mines d'Alés, France*)  
Biofiltration of reduced sulphur compounds: Impact of packing material inoculation with acclimatized microbial communities on performance

- 9.40-10.00 **Prof. G. Xu** (*State Key Laboratory of Urban Water Resource and Environment, Harbin Institute of Technology, China*)  
Adsorption properties of chromium (VI) on extracellular polymeric substances (eps)
- 10.00-10.20 **PhD. D. Saroj** (*Department of Urban Water and Sanitation, UNESCO-IHE Institute for Water Education, The Netherlands*)  
Ozonation for sludge reduction and improved biological nutrient removal

10.20-10.40 Coffee break

#### 5<sup>TH</sup> TOPIC: DEWATERING

- **Chairman: Mr. József Ányos** (*MAVÍZ, Hungary*)
- 10.40-11.00 **P. Hanzl** (*Carmeuse Central Europe, Czech Republic*)  
Sludge treatment with delayed reactivity time – effective solution for new EU member states
- 11.00-11.20 **Cornides Z.** (*DEWACO Commercial and Service Ltd., Hungary*)  
Revolutionary solution in sludge dewatering (the innovative „one belt being driven” Monobelt® press)
- 11.20-11.40 **E. Uggetti** (*Environmental Engineering Division, Department of Hydraulic, Maritime and Environmental Engineering, Technical University of Catalonia, Spain*)  
Technical, economic and environmental analysis of sludge treatment wetlands
- 11.40-12.00 **Dr. J.-C. Baudez** (*Cemagref, UR TSCF, France*)  
Towards fuel production from blends of sewage sludge and animal mills

12.00-12.20 Questions, discussion

12.20-13.30 Lunch

#### 6<sup>TH</sup> TOPIC: GASIFICATION/COMBUSTION

- **Chairman: Prof. Raf Dewil** (*Katholieke Universiteit Leuven, Belgium*)
- 13.30-13.50 **PhD. H. Saveyn** (*Laboratoire de Mécanique Modélisation et, Procédés Propres, France*)  
The distribution of heavy metals following sewage sludge gasification
- 13.50-14.10 **A.B. Hernández** (*Laboratoire de Mécanique Modélisation et, Procédés Propres, France*)  
Characterization of sewage sludge residue after thermal conversion: effects of the thermal treatment on the leachability of heavy metals retained on the solid
- 14.10.-14.30 **G. Mininni** (*Cnr – Water Research Institute, Italy*)  
Thermal diagnostic tests of primary and mixed sludge
- 14.30-14.50 **Prof. A. Zabaniotou** (*Department of Chemical Engineering, Aristotle University of Thessaloniki, Greece*)  
Thermal valorisation of sewage sludge, utilisation of sewage sludge in cement manufacture as a co-fuel
- 14.50-15.10 **J. Theulen** (*HeidelbergCement Environmental Sustainability, Belgium*)  
CO<sub>2</sub> beneficial sewage sludge recovery by cement kilns

- 15.10-15.30 Questions, comments  
15.30-15.50 Coffee break
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## 7<sup>TH</sup> TOPIC: DIGESTION

– **Chairman: Prof. Pavel Jenicek**

*(Institute of Chemical Technology Prague, Czech Republic)*

- 15.50-16.10 **B.A. Alagöz**  
*(Bogaziçi University, Institute of Environmental Science, Turkey)*  
Co-digestion of the waste water treatment sludges and the agricultural crop residues for the biogas production
- 16.10-16.30 **L. Appels** *(Chemical and Biochemical Process Technology and Control Section, Department of Chemical Engineering, Katholieke Universiteit Leuven, Belgium)*  
Partial least squares as a tool for prediction of the anaerobic digestibility
- 16.30-16.50 **PhD. M. Bonoli** *(Biotec sys srl, Italy)*  
Enhanced biosolid reduction and conversion to methane by CO<sub>2</sub> injection in a two-phase anaerobic digestion pilot plant
- 16.50-17.10 **P. Chudoba** *(Veolia Voda Continental Europe, Czech Republic)*  
Main factors influencing anaerobic digestion of sludge and energy efficiency several large wwtp in Central Europe
- 17.10-17.30 **Prof. P. Jenicek** *(Department of Water Technology, Institute of Chemical Technology Prague, Czech Republic)*  
Change of the digested sludge quality at microaerobic digestion
- 17.30-17.50 **Dr. I. Ferrer** *(Environmental Engineering Division, Department of Hydraulic, Maritime and Environmental Engineering, Technical University of Catalonia, Spain)*  
Energy assessment of the mesophilic and thermophilic anaerobic digestion of sludge
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- 17.50-18.00 Questions, discussion  
18.00-18.30 Closing of the conference, conclusions  
19.00 Dinner with closing cocktail