

“STATE OF THE ART”

Innovative Wastewater Treatment and Resource Recovery Technologies

Environmental, Economic & Social impacts

18 November 2016

Fundació Agbar

Cornellà de Llobregat, Barcelona (Spain)



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|---|--|--|
| 8:30 - 9:00 | Registration | |
| 9:00 - 9:30 | The 3R concept in wastewater treatment | Juan M. Lema (U. Santiago de Compostela, Spain) |
| Session I: Technologies reducing energy requirements and impacts | | |
| 9:30 - 9:50 | Nutrients removal | Francesco Fatone (U. Verona, Italy) |
| 9:50 - 10:10 | Membranes in wastewater treatment | Evina Katsou (Brunel U., United Kingdom) |
| 10:10 - 10:30 | Aerobic Granular sludge reactors | Claudio Di Iaconi (IRSA-CNR, Italy) |
| 10:30 - 10:50 | Anaerobic treatment of wastewater | Emine Gözde Özbayram (Istanbul T.U., Turkey) |
| 10:50 - 11:20 | <i>Coffee break</i> | |
| 11:20 - 11:40 | Technologies for micropollutants removal | Marta Carballa (U. Santiago de Compostela, Spain) |
| 11:40 - 12:00 | Technologies limiting gas & odour emissions | David Gabriel (A.U. Barcelona, Spain) |
| Session II: Reusing water and sludge | | |
| 12:00 - 12:20 | Producing high quality recycled wastewater | Uwe Hübner (T.U. München, Germany) |
| 12:20 - 12:40 | Producing sludge for agricultural applications (in Europe) | Sergio Ponsá (U. VIC, Spain) |
| Session III: Recovering resource | | |
| 12:40 - 13:00 | Energy from sludge | Sara Perez-Elvira (U. Valladolid, Spain) |
| 13:00 - 13:20 | Metals | Ioannis Vyrides (Cyprus T.U., Cyprus) |
| 13:20 - 14:30 | <i>Lunch</i> | |
| 14:30 - 14:50 | Nutrients | Ana Soares (Cranfield U., United Kingdom) |
| 14:50 - 15:10 | Organic added value products (bioplastics) | Anuska Mosquera (U. Santiago de Compostela, Spain) |
| Session IV: Assessing impacts | | |
| 15:10 - 15:30 | Assessing environmental impacts (LCA) | Maitte Moreira (U. Santiago de Compostela, Spain) |
| 15:30 - 15:50 | The impact of innovation on wastewater treatment costs | Francesc Hernández (U. Valencia, Spain) |
| 15:50 - 16:20 | <i>Coffee break</i> | |
| Session V: Process Integration | | |
| 16:10 - 16:30 | Steady-state decision support systems | Joaquim Comas (ICRA, Spain) |
| 16:30 - 16:50 | Superstructure optimization of plant design | Gürkan Sin (T.U. Denmark, Denmark) |
| 16:50 - 17:20 | Model-based comparative assessment of innovative processes | Eduardo Ayesa (CEIT, Spain) |

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