

Posters short oral presentations Sunday 23-06 and Monday 24-06

Microbiology of anaerobic digestion / (meta) genomic research

Thermal hydrolysis affects the microbiome structure and composition in sewage sludge anaerobic reactors

G.H.R. Braz, A. Taboada-Santos, N. Fernandez-González, M. Carballa, J.M. Lema, Spain

End-of-life of biodegradable plastics supports through anaerobic digestion: performance and microbial study

C. Guillaume, F. Monlau, R. Guyoneaud, C. Vasmara, C. Gassie, R. Marchetti, France

Impact of operational parameters on reactor performance and microbial community development during pilot-scale low temperature anaerobic digestion wastewater treatment

L.M. Paulo, J. Castilla-Archilla, J. Ramiro-García, J.A. Picón, D. Hughes, T. Mahony, M. Murray, P. Wilmes, V. O'Flaherty, Ireland

How reproducible is the anaerobic digestion microbiome?

M. Peces, S. Astals, Denmark

Lactic acid bacteria as key players in acidogenic fermentation as unveiled by flow cytometry and amplicon sequencing

H. Sträuber, J. Lambrecht, S. Kleinsteuber, S. Müller, Germany

Enhanced resolution of ecological keystone populations in full-scale AD systems

N. de Jonge, T. Sørensen, A.C. Pedersen, A. Schnürer, J.L. Nielsen, Denmark

Genome-centric metagenomics elucidates the microbial degradation metabolism of proteins in the anaerobic digestion process

X. Zhu, S. Campanaro, L. Treu, P.G. Kougias, I. Angelidaki, Denmark

Identification of novel foam-forming microbes in full-scale mesophilic digester at a wastewater treatment plant

C. Jiang, E. Yashiro, A.K. Corfitz Petersen, P. Halkjær Nielsen, Denmark

Sulfur cycle technology

Performance and bacterial diversity of a bioreactor for oxidation of sulfide from UASB reactor treating sewage

L. S. Azevedo, J. C. Araújo, C.A.L. Chernicharo, Brazil

Use of magnetite for in-situ removal of hydrogen sulfide during anaerobic digestion

H. Jung, J. Kim, C. Lee, Republic of Korea

Simultaneous biological treatment and REY (rare earth elements and yttrium) removal from an acid mine drainage

E.W. Nogueira, L.A.G. Godoi, G. Brucha, M.H.R.Z. Damianovic, Brazil

Alleviating sulfide toxicity using biochar during anaerobic treatment of high-sulfate wastewater with sulfur recovery

S.K. Khanal F.R. Oliveira, K.C. Surendra, D.P. Jaisi, H. Lu, United States

Nutrient removal/recovery linked to AD (anammox, struvite, N/P general)

Treatment of sidestream dewatering liquors from thermally hydrolyzed and anaerobically digested biosolids

W.J.B.M. Driessen, J.T.A. van Veldhoven, M. Janssen, M.C.M. van Loosdrecht, The Netherlands

Enhanced anaerobic digestion for energy autonomy necessitates mainstream anammox technology

S.E. Vlaeminck, M. Van Tendeloo, D. Seuntjens, B. Bundervoet, A. Haan, I. Dekker, R. Jordaens, H. Mollen, E. Wypkema, J. Colsen, Belgium

Towards enhanced nutrient recovery, biogas production and upgrading through AD and BES integration

V. Koskue, P. Ledezma, S. Freguia, M. Kokko, Finland

Operational strategies for a membrane biofilm reactor coupling DAMO and Anammox treating municipal landfill leachate to achieve a high rate nitrogen removal

G.J. Xie, China

Post treatment (+ agricultural use)

Filtration of municipal UASB effluent using a dynamic membrane immersed in anaerobic granular sludge

A. Rodríguez-Medina, A. Noyola, Mexico

Water treatment sludge as a filtration medium for post-treatment of UASB reactor effluent

M. Ahammed, India

AlgaeBioGas: Algal-bacterial treatment of biogas digestate with biomass production and energy recovery

A.Cerar, R.Reinhardt, M.B. Zrimec, B. Lazar, M. Slapnik, Slovenia

Impact of microaeration on dissolved sulfide and methane removals from anaerobic effluent

C.S. Cabral, C.A.L. Chernicharo, J.C. Araújo, Brazil

Anaerobic high-rate/granular sludge

AnSBBR Applied to Methane Production by Thermophilic Anaerobic Co-Digestion of Cheese Whey and Glycerin

J.N. de Albuquerque, A.P. Paulinetti, E. Kurita, J. Ventura, M.C. Hallak, S.M. Ratusznei, J.A.D. Rodrigues, Brazil

Long-term performance of an ECSB reactor treating cheese industry wastewater

V. Diamantis, A. Aivasidis, Greece

Hydrogen fermentation treatment of organic wastewater with high ammonia nitrogen concentration via electrodialysis bioreactor

A. Xia, P. Wei, C. Sun, Y. Huang, Q. Fu, China

Comparison of UASB and AnSCMR efficiency for the treatment of suspended solid (SS) rich starch wastewaters

B. Jiang, J. Wu, H. Chen, Y. Li, Japan