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ops).
Tortien Lund Skovus (VM University College, DK), Dr. 80 Højris (Grundfo, DK)
Callin Proctor (Ewag, CH); Co-Chin: Marc Calwards (Virginia Tech, USA), Amy myuden (Virginia Tech, USA), Frederik Hammes (Ewag, CH
Stan Archael Bilam (PIC), Dichlandus, USA), Wer-Tac (Lichwesing) of Illinos, USA), Per H. Nelsten (Alborg University, DK)
David C. Weisbrach (TII Delft, NI, Aalborg University, DK; Christopher E. Lawson (University of Wisconsin-Madison, USA)
opening.
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Affiliation
Chair MEWE2016, Technical University of Denmark, DK
Member of Parliament, Former Minister for the Environn
President of IWA2020, CEO VandCenter Syd
University of Vienna, Austria
  17:50-18:35 Amy Pruden
Moderator: Barth F. Smets
18:35-20:00
                                                                                                      Keynote 2: Identifying Ecological Control Points for Antibiotic Resistance Genes in Wastewater, Recycled Water, and Drinking Water
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Virginia Tech, USA
                                                                                                                                                                                                                                 Welcome reception

Monday, September $ 09:00 = 12:00

University of Aalborg, Denmark
                                                                                                                                                                                                                                                                                                                                                                                            Coffee break
Session 2: Systems biology approaches for assessing microbial communities in water engineering!
Moderators: Wen Tso Liu, Phil Bond and Jeseth Delgado Vela
Title
Title
                                                                                                                                                                                                                                                                                                                                                                                                                            10:00-10:20 David Gregory
                                                                                                                                                                                                                                                                                                      University of Michigan, USA
                                                                                                    Removal of wastewater viral load at the different stages of a full-scale wastewater treatment plant KAUST, Saudi Arabia virus abundance dynamica and their biotic and abiotic interactions in a full scale University of Newcastle, UK activated sludge plant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Investigating comammox Nitrospiro in rapid amount in spiro amount in single-cell genomics
Raman-based sorting of single nitrifier microcolonies isolated from active common spirol spiro
  10:40-11:00 Mathew Brow
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Meta-omics identifies key organisms and pathways for thiocyal degradation and nitrogen removal in a bioreactor community
                                                                                                    Persistence of a blaNDM gene positive E. coli, and its gene expression upon 
simulated solar irradiation compared to NDM-negative E. coli strain
                                                                                                                                                                                                                                                                                                                                                                                                                          11:00-11:20 Rose Kantor
  11:20-11:40 Maite Piiuan
                                                                                                    Occurrence of antibiotic resistance genes in sewer biofilms
                                                                                                                                                                                                                                                                                                                                                                                                                          11:20-11:40 Shameem lauffur
                                                                                                    Does water stress increase the incidence of antibiotic resistance genes in drinking water supplies?
  11:40-12:00 Maria Sevillano
                                                                                                                                                                                                                                                                                                               Monday, September 5 13:00 - 15:00
  Session 4: New microbial processes for resi
Moderators: Benedek G. Plósz and Silvio Mai
Presenter Titl
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Moderators: Akihiko Terada, Dav
Presenter
                                                                                                    Motossia Title
Permanent feast regimes as a new strategy to select PHA accumulating photosynthetic mixed cultures
Exploring a core fermentative-methanogenic microbiota in typical bioga
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    rization of mixed phototrophic communities through 185 University of Illinois, USA
  14:20-14:40 Yu Tan
                                                                                                                                                                                                                                                                                                              Imperial College London LIK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ity with University of Aalhore DK
  14:40-15:00 Yue Yuan
                                                                                                                                                                                                                                                                                                             Beijing University of Technology, China
Sessin 5: Managing microbial communities: Full scale experience I
Moderators: Gilda Carvalho, Eberhard Morgenroth and Xiaofei Wang
Presenter Title
                                                                                                                                                                                                                                                                                                                                                                                                                       Session 6: Environmental biotechnology: Discovering and applying recently discovered microbial physiologies

Moderators: Robert Nerenberg, Kim Sørensen and Masaru Nobu

Presenter

Title

Transport

Title
                                                                                                    Microbial community abundance vs. activity in anaerobic digestion in relation to salt stress
  10:00-10:20 Jo De Vrieze
 10:20-10:40 Lauren Stadler
                                                                                                                                                                                                                                                                                                             Rice University, USA
                                                                                                    Volatile fatty acid dependent nitrous oxide production from denitrification in high nitrogen wastewater
Stability analysis of chlorophenol mineralisation in a three-tiered methanoger concertion.
  11-00-11-20
  11:20-11:40 Stefan Wuertz
  11:40-12:00
  Session 7: Beneficial biofilms in wat
Moderators: Lutgarde Raskin, Cathe
 Moderators: Latiguide Raskin, Catherine Paul and Roron B. Wagner
Presenter

Spatial distribution of microbial community and N<sub>2</sub>0 depth profiles in counter

13:00:13:20 Albiha Toretab and dentification and dentification and dentification and dentification and dentification and the community of 
                                                                                                                                                                                                                                                                                                           Tokyo University of Agriculture and 
Technology, Japan
                                                                                                                                                                                                                                                                                                                                                                                                                            Session 8: Managing microbial communities: Full scale experience II
                    ators: Lutgarde Raskin, Catherine Paul and Florian B. Wagner
                                                                                                                                                                                                                                                                                                                                                                                                                           13:40-14:00 Chun Ma
                                                                                                  Control of nitrification co
                                                                                                                                                                                                                                                                                                                                                                                                                           14:00-14:20 Julian Munoz Sier
  14:00-14:20 Carolina Suarez
                                                                                                                                                                                                                                                                                                           University of Gothenburg, Sweder
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TU Delft, NL
                                                                                                    The influence of reactor staging on microbial structure and functions in pre-
denitrifying MBBRs
  14:20-14:40 Fabio Polesol
                                                                                                                                                                                                                                                                                                                                                         Wednesday, September 7 09:00 - 12:00
                 n 10: N
                                                                                                               logy of drinking water production and distri
venport and Marta Kinnunen
                                                                                                                                                                                                                                                                                                                                                                                                                                     sion 11: Bio
                                                                                                      Short-term microbial dynamics unveiled: 3 years of high-freq in drinking water from source to tap
                                                                                                                                                                                                                                                                                               ing EAWAG, Switzerland
  10:20-10:40 Michael Besmer
                                                                                                                                                                                                                                                                                                                                                                                                                           10:20-10:40 Jueying Qian
                                                                                                    Impact of disturbance on the bacterial communities in drinking water produced from established and newly-built slow sand filters

Copper dosing to biological rapid sand filters increases nitrifier activity and

Terhni
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AG, CH
  11:00-11:20 Florian R Wagner
                                                                                                                                                                                                                                                                                                                                                                                                                           Session 12: Ecological frameworks for understanding microbial dynamics in water engineering applications I 
Moderators: Stefan Wuertz, David Johnson and Nerea Uri
                                                                                                    Origin and development of tap water microbial communities: source track to distribution system phases and treatment steps

Oasen, Netherla
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Effect of combinations of nitrogen oxide compounds on the biochemistry and genetics of the denitrification pathway
                                                                                                                                                                                                                                                                                                                                                                                                                           11:20-11:40 Gilda Carvalho
  11:40-12:00 Melina Bautista-De Los
Santos
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Patterns of phage-host coevolution in a self-ass
revealed by time-series metagenomics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   logical frameworks for understanding microbial dynamics in water en 
aud Dechesne, Jeppe L. Nielsen and Melina Bautista De Los Santos 
esenter
  13:00:13:20
                                    Michael Waak
                                                                                                                                                                                                                                                                                                                                                                                                                          Session 14: Methods for monitoring, and assessing microbial communities in water engineering.

Moderators: Annual Dechesive, leppe L. Nielsen and Melina Bautista De Los Sontos

13:40-14:00 Direct identification of anyloids in biolilims by label-free quan combined with formic acid treatment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Use of alternative fluorophores in a multicolor FISH approach to visualize microbial diversity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Evaluation of multiple DNA aligners for the analysis of full-length 16S rRNA gene sequences from mixed microbial communities on the MinIONTM
  14:20-14:40 Laurent Moulin
                                                                                                   Non Tuberculosis Mycobacteria diversity in tap water: The role of amoeba
                                                                                                                                                                                                                                                                                                 Eau de Paris, France
                                                                                                      Keynote 7: Structure, function and metabolism of anaerobic carbon cycling in engineered resource recovery pr
                                                                                                   Potter session I Monday 15:00 - 17:00
Biofouling and biocorrosion in engineered water systems
Environmental biotechnology: Discovering and applying recently discovered microbial physiologies
Methods for monitoring and susessing microbial communities in water engineering
Wethods for monitoring and susessing microbial communities in water engineering
Open Pathogens and investor in water engineering microbial communities: Connecpts and observations
Systems biology approaches for susessing microbial communities in water engineering
The ecology of antibiotic resistance genes in water engineering systems
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Room A = Rooms 202-204

Room B = Room "Audience"

Rooms 102-105