

Agenda for IWAMA 4<sup>th</sup> International Capacity Development Workshop:  
**Smart Sludge Management**  
8.–9.2.2018 Tartu, Estonia

## Thursday 8.2. Sludge management

Venue: STRUVE Hall at Dorpat Convention Centre

### Sludge legislations session

**08.30** Registration and coffee

**09.00** Welcoming words by Toomas Kapp, Tartu Waterworks

**09.10** Practicalities and introduction to the programme, by Taavo Tenno, University of Tartu

**09.30** EU perspective and German legislation concerning sludge, by Claus-Gerhard Bergs, formerly Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety

**10.00** Sludge legislation in Finland: sludge based fertilizer products for agricultural use, by Ari Kangas, Environmental Ministry of Finland

**10.20** Estonian legislation and certification system, basis for End of Waste for sewage sludge, by Vallo Lemmiksoo, Estonian Life Science University, aqua consult Baltic

**10.40** Coffee break

### Sludge handling perspectives

**11.00** Pharmaceuticals in municipal sludge - is it a real threat or should they be ignored? by Egge Haiba, Tallinn University of Technology

**11.20** HELCOM vision to sewage sludge handling and recycling of nutrients, by Dmitry Frank-Kamenetsky, HELCOM

**11.40** Panel discussion "Legislative changes concerning sewage sludge and perspectives for the future use and utilization"

**12.20** Lunch

### Session on new sludge handling technologies and case studies

**13.20** Effect of thermal and chemical hydrolysis on sludge dewatering, drying and incineration, by Peter Hartwig, aqua&waste International

**13.40** Sludge treatment in reed beds - state of the art through 30 years of experience, by Steen Nielsen, Orbicon A/S

**14.00** Production of synthetic fuels and green hydrogen from sludge (TO-SYN-FUEL), by Nils Jäger, Fraunhofer Society for the Advancement of Applied Research

**14.20** Coffee break and division for moving to parallel sessions

## Neighbourhoods session

### 14.40 Parallel Neighbourhoods session

Group 1, venue *STRUVE Hall*: How to finance upcoming investments caused by potential changes in national/international legislations?

Group 2, venue *BAER Hall*: How to increase the demand for the end-product of your sludge treatment processes (humus, compost etc)? How to increase the product value?

Group 3, venue *PETERSON Hall*: Practicalities, how to operate a digester?

Group 4, venue *OSTWALD Hall*: Practicalities, how to operate a composting process in the WWTP?

### 15.25 Transfer to the main hall

## Final use practices

15.30 **Final use practices – case Helsinki region**, by Mikko Wäänänen, Helsinki Region Environmental Services Authority

15.45 **End of Waste for sewage sludge in Estonia – startup of the certification centre**, by Mait Kriipsalu, Estonian University of Life Sciences

16.00 **Recycling sewage sludge ash for agricultural application in Germany**, by Harald Plank, Huber SE

16.15 **Summaries of the parallel discussions**

16.35 **Teaser for the next event: 5th IWAMA CD Workshop on Nutrient reduction and recovery in Kalmar, Sweden**, by William Hogland, Linnaeus University

16.45 **Closing of the day and briefing of day 2 programme**

18.00 **Gathering for bus transportation to the networking dinner at the Estonian National Museum (Muuseumi tee 2)**

## Friday 9.2. Site visit and Project Meeting

8.30 **Gathering for bus transportation to the site visit**

9.00 **Presentation of Tartu WWTP**

9.30 **WWTP – detailed tour and transfer back to the meeting venue**

### IWAMA partner sessions

Venue: Struve Hall at Dorpat Convention Centre

11.00 **Project output publications and translation needs**, by Olena Zinchuk, UBC

11.15 **IWAMA Final Publication (including BSC commitments)** by Agnieszka Ilola, UBC

11.30 **Lunch**

12.30 **Capacity Development and Training Material Package overview**, by Sami Luste, Lahti University of Applied Sciences

12.50 **Reporting remarks**, by Olena Zinchuk, UBC

13.10 **Budget change summary and underspending situation**, by Jussi Välimäki, UBC

### Evaluation and Closing

13.30 **Information about the IWAMA tour at IFAT 2018 in Munich, Germany**, by Stefan Rettig, Technical University of Berlin

13.35 **On site feedback evaluation**, by Katerina Medkova, Lahti University of Applied Sciences

13.45 **Closing words and coffee**

14.00– **Possibilities for the individual consultation**