

Joint Technical Workshop on “Ozonation for advanced wastewater treatment”

Date: 14th March 2019

Location: Tekniska Verken (Hörsalen), Brogatan 1, Linköping

Target group: utilities, authorities, researchers, engineering and consulting companies

Organized by: Tekniska Verken i Linköping AB, Linköpings kommun, Lunds Universitet, Aarhus University (DK), Berlin Centre of Competence for Water (DE), VA-teknik Södra, Länsstyrelsen i Östergötland, VA-kluster Mälardalen

Registration-Link: [Click here](#)

Program:

8:45 – 9:15	Arrival and registration
9:15 – 10:25	Welcome to Tekniska Verken i Linköping AB (R. Hovenberg, Tekniska verkens board, 10 min)
	Get to know the project CW Pharma (H. Ek-Henning, Länsstyrelsen i Östergötland, 15 min)
	Get to know the project ‘BONUS’ (K. Bester, Aarhus University, 15 min)
	Get to know the project ‘LIWE LIFE’ (P. Bratt, 15 min)
	Overview on full-scale ozonation plants in Germany and Switzerland (U. Miehe, KWB, 15 min)
10:25 – 10:45	Break
10:45 – 12:00	Session: Planning and design of ozonation plants
	Aspects to be considered for design of ozonation (M. Stapf, KWB, 15 min)
	Integrating of an ozonation into existing plants (Linköping) (R. Sehlén, TVAB, 15 min)
	Planning of full-scale ozonation in Lidköping (Speaker C. Dahlberg, Sweco, 15 min)
	Swedish joint group on tenders for advanced wastewater treatment (M. Cimbritz, Lund University, 15 min)
	Open discussion (15 min)
12:00 – 13:00	Lunch at restaurant at the nearby SAAB Arena (5 min walk)
13:00 – 13:55	Session: Operation and control of ozonation plants
	Using UV absorbance for ozone dosing control (M. Stapf, KWB, 15 min)
	Removal of micropollutants by ozone – is a normalization on COD better than on TOC? (M. Cimbritz, Lund University, 15 min)
	Formation and destruction of transformation products under various ozone dosages (M. Suman, Aarhus University, 15 min)
	Open discussion (10 min)
13:55 – 14:10	Break

14:10 – 15:05	Session: Ozonation post-treatment
	Removal of ozonation products in biofilm polishing (K. Bester, Aarhus University, 15 min)
	Comparing different ozonation post-treatment systems (R. Gnirss, Berliner Wasserbetriebe (Germany), 15 min)
	Systematic review of toxicity removal by advanced wastewater treatment technologies (J. Völker, Norwegian University of Science and Technology, 15 min)
	Open discussion (10 min)
15:05 – 15:20	Break
15:20 – 16:20	Parallel work-sessions:
	Work-group 1: Planning and design
	Work-group 2: Operation and control
	Work-group 3: Post-treatment
	Technical tour 1: Linköping ozonation plan and MBBR (max. 50 part.)
16:20 – 16:30	Closing (R. Sehlén, TVAB, 10 min)
16:30 – 17:30	Technical tour 2: Linköping ozonation plan and MBBR (max. 50 part.)