

## 8<sup>th</sup> edition EURO-SAM workshop Luleå, Sweden - February 15<sup>th</sup> and 16<sup>th</sup> 2023



The UDAM Committee is glad to invite you to the 8<sup>th</sup> edition of EURO-SAM workshop which will be hosted by Luleå University of Technology.

After two years of pandemic and online meetings, we are happy to meet finally in person. Thus, we are planning a physical meeting on February 15<sup>th</sup> and 16<sup>th</sup> in Luleå. We ask you kindly to [register already from now](#). Come and see the northern lights through the prism of sewer asset management!

Similar to the last years, this 2-days workshop aims to gather European researchers working on the topic of **Sewer Asset Management** in order to share recent research results and to facilitate collaborations. As always, the workshop is free of charge and open to any researcher.

Time will be dedicated to collaborative work in order to find out shared topics and define further collaborations between the interested participants (e.g. share of data and method; collaborative publications and projects, etc.). Suggested topics include:

- Inspection techniques, CCTV and sewer condition assessment
- Uncertainties in sewer asset management
- Statistics and machine learning for deterioration modelling
- Strategic planning and operational asset management
- Cross between technical, financial and accounting approaches
- Cooperation and interactions between urban infrastructures (water, roads, sewer, etc.)

Please register your participation via the [registration form link](#) below.

The next page presents the agenda of the workshop.

Please do not hesitate to forward this invitation to your colleagues.

Looking forward to seeing you soon in Luleå,

The organizing & scientific committee,

Franz Tscheikner-Gratl (NTNU) - @  
Nicolas Caradot (KWB, Berlin) - @  
Frédéric Cherqui (INSA, Lyon) - @  
Nathalie Hernandez (STEIN) - @  
Annelie Hedström (LTU Luleå)  
Maria Viklander (LTU Luleå)  
Youen Pericault (LTU Luleå)

### Location

Luleå University of Technology  
Luleå, Sweden  
(exact location to be provided later)

### Registration

<http://tiny.cc/eurosam2023>

## 8<sup>th</sup> edition EURO-SAM workshop agenda

DAY 1 – February 15 <sup>th</sup>		
9:00	Registration and welcome by UDAM	
	<b>Session 1</b>	<b>Monitoring and condition assessment</b>
9:30	David Honzátko, <i>CSEM (Switzerland)</i>	Challenges in applying deep-learning vision-based sewer defect detection models to practice.
10:00	Will Shepherd, <i>University of Sheffield (UK)</i>	Development of Autonomous Robotics for Inspection of Smaller Diameter Sewers: The Pipebots Project
10:30	BREAK	
11:00	Meriem Igroufa, <i>University of Bejaia (Algeria)</i>	Assessing the operation of the sewerage network using performance indicators: A case study of Bejaia, Algeria
11:30	Ehsan Kazemi, <i>University of Sheffield (UK)</i>	A deep learning-based framework for automated detection of in-pipe defects in CCTV sewer surveys
12:00	Networking European calls	
12:30	LUNCH BREAK	
	<b>Session 2</b>	<b>Deterioration modelling and failure analysis</b>
14:00	Jeroen Langeveld, <i>TU Delft (The Netherlands)</i>	Failure model for pressure mains
14:30	Ehsan Kazemi, <i>University of Sheffield (UK)</i>	Machine learning for prediction of failures in sewer networks
15:00	Thomas Brüggemann, <i>IKT (Germany)</i>	Condition assessment and modelling
15:30	Franz Tscheikner-Gratl, <i>NTNU (Norway)</i>	Book UDAM

DAY 2 – February 16 <sup>th</sup>		
	<b>Session 3</b>	<b>Strategic planning and multi-Infrastructure</b>
9:00	Martin Bjarke, <i>Lund University (Sweden)</i>	Drivers and challenges of decision making in sewer asset management - a case study of a Swedish utility
9:30	Maryam Beheshti, <i>Asplan Viak (Norway)</i>	Future wastewater systems: digitalisation of wastewater networks
10:00	BREAK	
10:30	Adrian Uhlenbroch, <i>STEIN Infrastructure Management (Germany)</i>	Consistent sewer replacement values as basis for reliable fee/tariff calculation in Germany - A recent project driven by legal need.
11:00	Youen Pericault, <i>Luleå University of Technology &amp; Luleå MiljöResurs AB (Sweden)</i>	Top-down and grassroots multi-infrastructure asset management
11:30	Tuija Laakso, <i>Aalto University (Finland)</i>	Drivers and barriers for data-driven sewer asset management
12:00	LUNCH BREAK	
	<b>Session 4</b>	<b>Blue-Green Infrastructure</b>
14:00	Bénédicte Rulleau, <i>INRAE (France)</i>	A spatial valuation of co-benefits provided by SuDS. An application to the Strasbourg Eurometropole
14:30	Florian Kretschmer <i>University of Natural Resources and Life Sciences (Austria)</i>	Performance assessment of blue-green infrastructures based on EN 752 functional requirements
15:00	Bardia Roghani, <i>Norwegian University of Science and Technology - NTNU (Norway)</i>	Asset management of Blue-Green infrastructures
15:30	Conclusion + UDAM past and future activities	
16:00	Future activities and conclusion	