

# Programme Digital Conference Democratia-Aqua-Technica 29. + 30.09.2025

Day 1 - 29.09.2025		
Time (CEST)	Title	Speaker
9:00 – 9:15 a.m.	Welcome from Prof. Dr. Victoria Büsch	Prof. Dr. Victoria Büsch (Rector SRH University, Germany)
9:15 – 09:30 a.m.	Welcome from project leaders Democratia-Aqua-Technica	Prof. Dr. Ulrike Gayh (SRH University, Germany), Prof. Dr. Jelena Radonic (University of Novi Sad, Serbia)
09:30 – 10:00 a.m.	An examination of the dynamics of water conflicts	Sameena Nazir (Executive Director PODA, Pakistan)
10:00 – 10:30 a.m.	Spatio-temporal analysis of urban growth, vegetation, water resources and their effect on the land surface temperature in Niamey, a semi-arid region	Halarou Saidou Souley (Andhra University, India)
10:30 – 11:00 a.m.	Satellite-based measurement of Amoron'i Mania waterbodies variability related to soil texture and climate factors	Dr. Rindra Randriamifidison (ISTA, Madagascar)
11:00 – 11:30 p.m.	Practical River Water Quality Assessment Using IoT Sensor Networks	MohammadFazel Pourmohammadi (SRH University, Germany)
11:30 – 12:30 p.m.	Poster presentations	
12:300 – 01:30 p.m.	Lunchbreak	
01:30-02:00 p.m.	Effect of OLR and HRT on AD bioreactor performance	Rayaan Harb (METU, Turkey)
02:00-02:30 p.m.	Assessment of Groundwater Recharge Potential Zones in Togo Using AHP and MIF within a Geospatial Framework	Komlavi Eyram Agbotsou (Andhra University, India)
02:30-03.00 p.m.	International group projects that work with built IOT-device network for environmental data monitoring. Also, how the network can contribute to sustainability through inclusion of AI.	Gergana Kehayova et al. (SRH University, Germany, University of Central Asia, Kirkistan, Paragon University, Cambodia)
03.00-03.30 p.m.	Green Engineering Approach to Nutrient Recovery: Optimizing Struvite Production in Fluidized Bed Systems	Sümeyye Nur Köse (METU, Turkey)
03.30-04.00 p.m.	Examining the physico-chemical parameters of the River Danube in Germany, Austria, Hungary, and Serbia	Nikola Gluvakovic (University of Novi Sad, Serbia)
04:30 – 06:00 p.m.	Digital city rally Heidelberg - water and architectural highlights of the city	



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Day 2 - 30.09.2025		
Time (CEST)	Title	Speaker
9:00 – 09:30 a.m.	Welcome + Coffee	Prof. Dr. Ulrike Gayh (SRH University, Germany), Prof. Dr. Maja Turk-Sekulić (University of Novi Sad, Serbia)
09:30 – 10:00 a.m.	Environmental Evaluation of a Real-Scale Biogas Plant via Life Cycle Assessment: A Case from Turkey	Ulaş Yüzendağ, Enes Kartopu (METU, Turkey)
10.00-10.30 a.m.	Wastewater from Small-Scale Palm Oil Processing in Ghana: Life Cycle Environmental Impacts and Mitigation Options	Dr. Augustine Ntiamoah (SRH University, Germany)
10.30-11.00 a.m.	Indoor exposure to semi-volatile organic compounds (SVOC) – a review	Prof. Dr. Jelena Radomic (University of Novi Sad, Serbia)
11.00-11:30 a.m.	Wastewater to clean fuel generation: An approach on synchronized waste management and green energy	Prof. Dr. Debarpita Ghosal (C V Raman Global University, India)
11.30-12:30 p.m.	Poster presentations	
12:30 – 01:30 p.m.	Lunchbreak	
01:30 – 02:00 p.m.	Impact of Acclimated Bioanodes and Biocathodes on Methane Production Rates in MEC-AD Systems	Abdulazeem Altigani (METU, Turkey)
02:00 – 02:30 p.m.	Aquifers in the "Bosque de la Primavera" Jalisco, Mexico	Prof. Dr. I. Livier de Regil Sanchez, Alvaro Belmontes (UNIVA, Mexico)
02:30 – 03:00 p.m.	From 360° VR to VR Simulations and Real-Time Skills Tracking: Innovative Teaching Models for Students in the Context of Sustainable Water Management	Dr. Leila Mekacher (Innoversa, Germany)
03:00 – 03:30 p.m.	Gamification of E-learning making environmental education more accessible	Aditi Das (SRH University, Germany)
03:30 – 04:00 p.m.	Wrap up and Closure	Prof. Dr. Ulrike Gayh (SRH University, Germany), Prof. Dr. Maja Turk-Sekulić (University of Novi Sad, Serbia)

### Join Teams Meeting

**[Jetzt an der Besprechung teilnehmen](#)**

Meeting ID: 353 031 426 295 2  
Passcode: Bu797Ms3

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## Programme

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### Poster Presentations Day 1 - 29.09.2025

Title	Speaker
IoT Sensor Evaluation and Air Quality Monitoring at the Fruška Gora Pre-Pilot Site within the REMARKABLE Project Framework.	Sonja Dmitrašinović (University of Novi Sad, Serbia)
Évaluation of soil fertility in Andoharano for sustainable agriculture	Marinah (ISTA, Madagascar)
Evaluation of the Effectiveness of Zina and Soavokatsa Organic Fertilizers on the Growth and Yield of Red Bean (Vangamena CAL 98) in Ambositra	Toky (ISTA, Madagascar)
Turning Wastewater into Value: Craft Beer as a Model for Circular Water Reuse	Daria Ilić (University of Novi Sad, Serbia)
Removal of heavy metals using biochar: a brief dft study	Marija Vigi (University of Novi Sad, Serbia)

### Poster Presentations Day 2 - 30.09.2025

Title	Speaker
Microplastics in air – brief overview	Marija Vigi (University of Novi Sad, Serbia)
Study of the hydrological potential: a case study of Andoharano village	Vaholy (ISTA, Madagascar)
Assessing the Impact of Rain Tree Management on Urban Area	Asma Mabrouk (SRH, University)
Turning Agricultural By-products into Clean Water: Activated Carbon for Contaminant Removal in Ghana	Camila Valencia (SRH University, Germany)
Flue gas desulfurization using the wet additive method	Jovana Aleksić (University of Novi Sad, Serbia)
Risk management strategy for stakeholders in the cactus juice biomaterial transition project, to ensure its long-term sustainability	Servina Bardeskar (UNIVA, Mexico / SRH University, Germany)

### Additional posters

Title	Speaker
Economic success with renewables!	Dr. René Schellenberger (XaiTeck GmbH, Germany)
Creative session environmental communication for the next generation	Anja Roth, Liz Helmecke (Wellenmachen, Germany)
Bismarckplatz – From Small Actions to a Sustainable Urban Vision	Zahra Parchami (SRH University, Germany)
Strategies for scalability, penetration, and adoption in the Rhine-Neckar Metropolitan Region market of biodegradable cactus-based pet toys: Analysis of consumer behavior, entrepreneurial feasibility, and regulatory compliance	Rohit Adeparwar (UNIVA, Mexico / SRH University, Germany)
Project "WaserKunst" – Environmental education at the river Weschnitz	Rohit Adeparwar, Bernd Schlag, Ulrike Gayh (GUB / SRH, Germany)
Assessing Spatial Variability and Inter-Parameter Relationships of Physicochemical Parameters in the Weschnitz River	Abigail Yeboah et al (SRH University, Germany)