



# Theme-based training of teaching staff for acquiring new teaching and learning methods WP 2.5

Priv.-Doz. DI Dr. Michael Tritthart University of Natural Resources and Life Sciences BOKU, Vienna

Meeting / 4th February 2020

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**University of Nis** 



www.swarm.ni.ac.rs

Strengthening of master curricula in water resources management for the Western Balkans HEIs and stakeholders

Project number: 597888-EPP-1-2018-1-RS-EPPKA2-CBHE-JP





### Schedule

- Tuesday 4<sup>th</sup> until Thursday 6<sup>th</sup> of February 2020 (Travelling dates: 3<sup>rd</sup> and 7<sup>th</sup> of February 2020)
- University of Natural Resources and Life Sciences, Vienna (BOKU)
- 3 Sessions
  - New teaching and learning methods
  - Study visits
  - Water-related higher education







# Session 1 New teaching and learning methods

Tuesday, 4 <sup>th</sup> February 2020					
Vienna, Muthgasse 107					
New teaching and learning methods					
09:15-09:30	Registration of SWARM participants				
09:30-09:45	Welcome address	Dr. Tritthart, BOKU			
09:45-12:15	Innovative teaching practices	Dr. Weber, BOKU			
12:15-13:00	Lunch				
13:00-17:30	Online learning methods	Dr. Weber, BOKU			

Have your notebooks ready



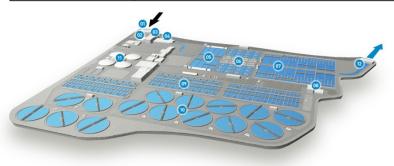






### Session 2 Study visits

Wednesday, 5 <sup>th</sup> February 2020					
Vienna, Wien Mitte – Landstraße					
	Study visits				
09:15	Meeting point Wien Mitte - Landstraße				
10:00-12:00	Tour Waste Water Treatment Plant of Vienna				
12:00-13:00	Lunch break				
13:00-15:00	Tour hydro power plant Freudenau				
15:00-15:30	Transport to Wien Mitte				



GRAVELTRAP 04 SAND TRAP 07 INTERMEDIATE SETTLING 10 FINAL CLARRICA
SCREW PLAMP FACILITY 05 PRIMARY SEDIMENTATION 08 INTERMEDIATE PLAMPING STATION 11 SUDGE THICKEN

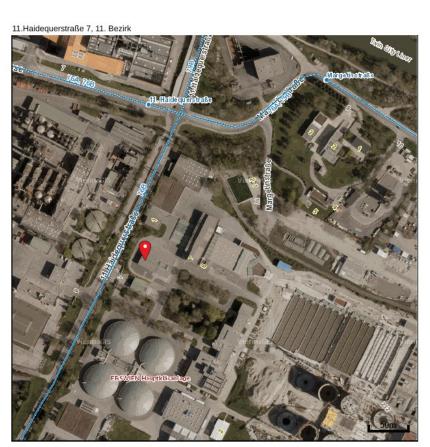
ebswien hauptkläranlage







#### Wastwater treatment plant: 11. Haidequerstraße 7, 1110 Vienna



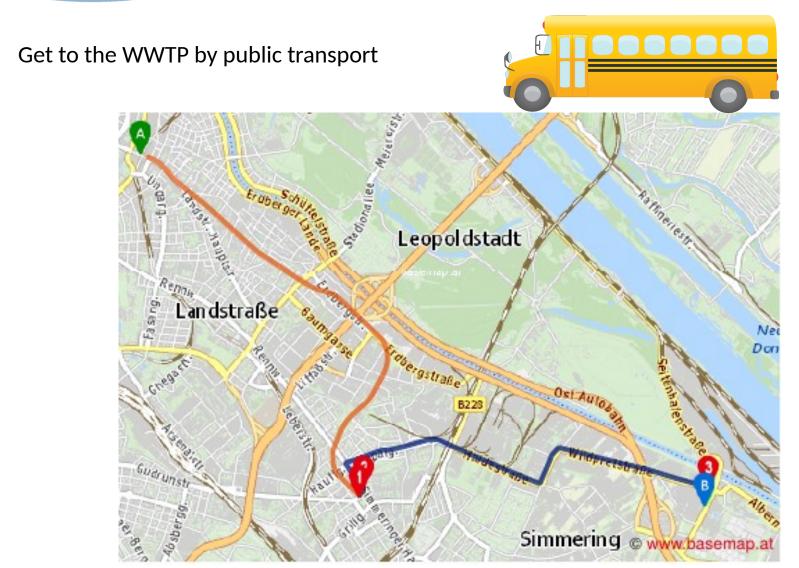


https://www.wien.gv.at/stadtplan/

Quelle: Stadt Wien - ViennaGIS http://www.wien.gv.at/viennagis



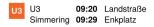








### Meet at 9:15 in front of Wiener Linien Ticket shop at Wien Mitte/Landstraße (U3, U4) get a 24h ticket (8€)









09:36 Enkplatz U/Grillgasse09:48 11. Haidequerstraße







## Session 2 Study visits Instructions for WWTP tours

1.	ebswien		
•	hospiktirasiogo	Unterweisung für Führungen (englische Version)	Formular Nummer: =A &BQC0
We	are very pleased to		Version: 6
ope	rate and perform in	the interest of the	
9010	ennes for tours of an	at you have taken an interest in our facilities and our the interest of the city of Vienna and its inhabitants. W operational wastewater treatment plant that have to be of instructions for plant tours.	tasks, which we conscient e want to introduce you to
For to	ours of the Vienna Ma	Instructions for plant tours ain Wastewater Treatment Plant, the following guidelines of shoes and robust clothing should be worn.	oserved and adhered to.
	A sturdy pair o	wasiewater Treatment -	Should to
	During the tour	f shoes and robust clothing should be worn.	should be adhered to:
		smoking is strictly forbidden on the whole plant.  In by the tour guide must be followed. Noncompliance mather than the group is required to the	
	the tour.	by the tour guide must be followed. None	
	During the tour	the group is required to stay on the designated paths (roa ed.	ay result in a cancellation of
	and promibit	ed. Stay on the deciment.	
	The applicant has	acoignated paths (roa	ids,). Climbing up building
	back of the group For school classe for a group of 10 c	ns, etc.), it has to be ascertained that there is at least one of the large that the secretained that there is at least one so between the 6 <sup>th</sup> and 8 <sup>th</sup> form (= ages 12 to	or larger groups (school supervisor at the front and
	Cases of human in	jury or of damage to	ervisor has to be provided
	Restricted areas m	is each additional group of 10 children, another jury or of damage to plant property must be reported to the ust not be entered.	ne tour quide :
	Switches, buttons, v	/alves etc. must not be operated.	guide immediately.
	Priotographs	and filming d	
the aforemen	facilities. Therefore, of to be avoided. Conta smooth proceeding of tioned guidelines.	d out that special hazards and loads, especially concen direct contact with waste water, sewage sludge, waste ma aminated clothes or limbs have to be	ning hygiene, exist within aterials and contaminated y (e.g. washing hands). e tour participants about
		about the aforementioned guidelines.	
Group			
		Country	
Date of tour	***************************************		
		Date, Signature and name in block capitals	
We ask you to co	Omnieto this s		
		fax if to the following number: +43/1/76099/5800, if posselease, at the latest, hand it to the guide on the day of the i	iible before attending tour.
rsteller: Isabella I	Plank		
		Seite 1 v	/on 1



Thank you for signing and sending the forms to us





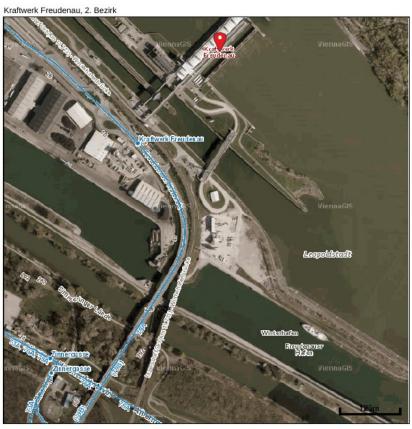
#### Kraftwerk Freudenau







#### Kraftwerk Freudenau, 1020 Vienna





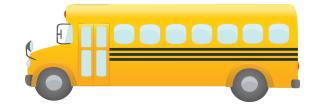
https://www.wien.gv.at/stadtplan/

Quelle: Stadt Wien - ViennaGIS http://www.wien.gv.at/viennagis





#### Get to Kraftwerk Freudenau by public transport









#### Bus 76A and 22min walk



12:11 Haidestraße S12:22 Zinnergasse











#### Have a look at the safety regulations!

#### Verbund



#### Safety regulations for the visitor center and the guided tours

#### in the Freudenau hydropower plant

- ① Disclaimer: The visit of the Freudenau hydropower plant is at your own risk and can only take place in the company of authorized guides.
- 1 The Freudenau hydropower plant is an electrical facility. Mind the resulting dangers!
- ① During the guided plant tour there is compulsary helmt wear in the area of the powerhouse. The helmets are provided by the plant operator.
- Always stay with the group
- ① Paying for the expense contribution is no permission for visiting all parts of the power plant. For safety reasons, only octain plant components are part of the guided four. Due to maintenance, modification or other installation work, the four can be further restricted for safety reasons. Do not enter any rooms and plant devices which are not part of the guided four. Highly voltage systems (generator, energy transmission devices, switch and control gear) are not publicly accessible and therefore exempted from the quidet four.
- ① Do not cross any barrier:
- Do not go in close proximity to unprotected fall sites and to assembly areas!
- ① Do not remain under heavy loads!
- ① Do not touch any machines, cables, swith and control gears or other devices and equipment!
- (i) Keep calm and prudent in case of accidents! Provide accidental help to injured persons till the arrival of rescuers! Save accident victims out of the danger spot but mind espacially your self-protection! Mind the instruction sign; (first-aid-boxes, espape route identification); first-aid-boxes are located in the workshop, under the turbines in the area of the third machine and in the visitor center.
- © Draw your attention to the fact that electric fields occur near high voltage systems (generator, energy transmission devices, switch and control gear). Therefore preparant women and persons with cardiac pacemakers or other implanted electronic medical devices are generally not allowed to visit the Freudenau hydropower plant for safety reasons?
- ① Choose suitable clothing and footwear for the guided tour! Your clothes can get dirty in the course of the tour. Persons with unsuitable footwear – especially persons with high heels – can not participate in the guided tour because of the risk of injury.
- ① During the guided tour there is an absolute ban on smoking and alcohol! Drunk persons are not allowed to participate in a guided tour!
- $\oplus$  Report possible sources of danger and safety-relevant occurments immediatly to the authorized guide!
- $\ \oplus$  Dogs (exempted assistance animals of disabled persons) can not be taken to the visitor center or the guided tour.
- ① Infants must be taken in back or stomach wear. Pushchairs are to be parked outside the visitor center. Bikes have to be parked on the public bridge for pedestrians and cyclers (bicycle racks).
- ① During the guided tour, stairs must be walked up and down. Outside normal working hours (Monday to Thursday, 7 a.m. to 5 p.m., excluding public holidays), the lifts are NOT available.
- (i) In the case of fire alarm (evacuation alarm) use the fastest way following the designated escape route to the signed assembly point outside the power plant. Stay with the group and the authorized glude and follow his instructions till the arrival of rescuers! Evacuation alarms are announced through
- © Failure to comply with these safety regulations, instructions or prohibitions can result in the termination of the guided four for safety reasons. The fee will not be refunded in this case. Caused damages to the property of the plant operator or third parties in case of failure to comply lies in the responsibility of the visitor causing. The liability of the guide or VERBUND is excluded.

VERBUND Hydro Power GmbH, Europapiatz 2, 1150 Vienna, Austri

FN 844382, Commercial Court of Vienna, VAT Identification no. ATU14703800, Data Profection Register 0032522, EORI ATEOS10000037







# Session 3 Water-related higher education

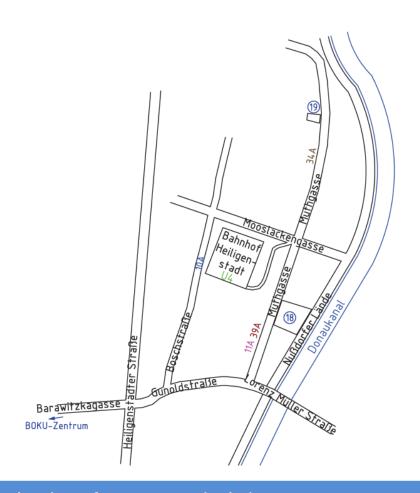


Thursday, 6 <sup>th</sup> February 2020				
Vienna, Muthgasse 107				
Water-related higher education				
09:15-09:30	Registration of SWARM participants			
09:30-10:00	Introduction to the e- Dr. Tritthart, BOKU			
	learning system BOKUlearn			
10:00-10:30	eLearning exercises and DI Wildt, BOKU			
	tests			
10:30-11:00	Walk to lab and pilot			
	facilities			
11:00-14:00	Lab and pilot facilities tour			
14:00-15:00	General discussion and closing the meeting			





#### Walk from Muthgasse 107 (19) to lab and pilot facilities (18)



#### BOKU-Zentrum

(1) Gregor Mendel-Haus (2) Justus v. Liebig-Haus (3) Adolf v. Guttenberg-Haus (4) Oskar Simony-Haus (5) Adolf Cieslar-Haus (6) Türkenwirt (7) Wilhelm Exner-Haus (8) ZIB-Villa (9) Franz Schwackhöfer-Haus (10) Villa Max Emanuel (11) Baracke 1 (12) Baracke 2 (13) Baracke 3 (14) Baracke 4 (15) Baracke 5 (16) 19., Hasenauerstr. 38 (17) 19., Billrothstr. 53	18., Gregor Mendelstr. 33 18., Gregor Mendelstr. 33 18. Feistmantelstr. 4 18., Peter Jordanstr. 65 19., Peter Jordanstr. 70 19., Peter Jordanstr. 76 19., Peter Jordanstr. 82 19., Peter Jordanstr. 82 19., Peter Jordanstr. 82 19., Max Emanuelstr. 17 19., Borkowskygasse 19., Borkowskygasse 19., Borkowskygasse 19., Borkowskygasse 19., Borkowskygasse 19., Borkowskygasse

19., Nußdorfer Lände 11





### **Contact information**

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