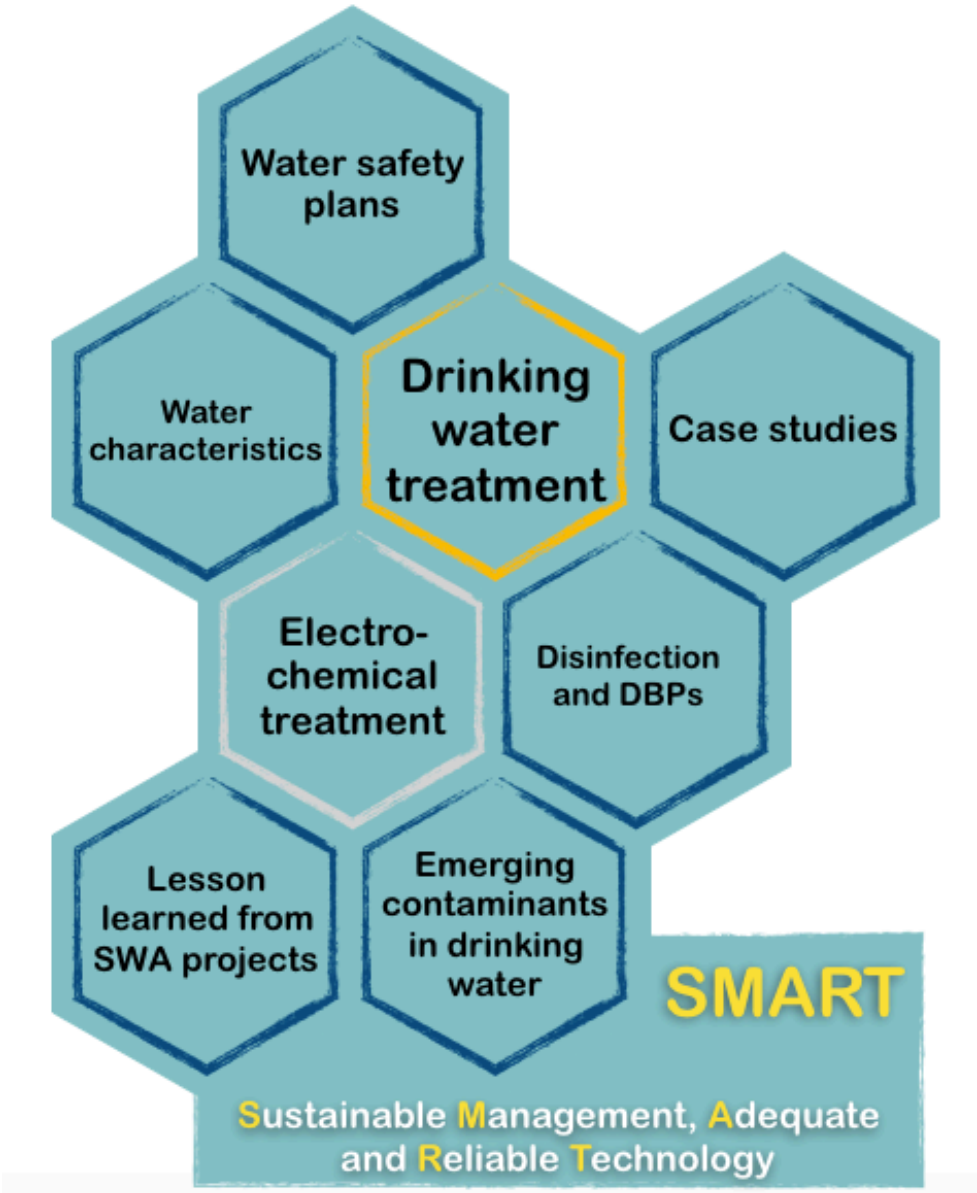
FIRST ANNOUNCEMENT

Summer School on SMART Drinking Water Treatment

State of the art and future perspectives



When

01 - 05 **July**, 2019

Where

Department of Engineering, **Ferrara**, **Italy**

Important dates

-**28 March**, opening application for participation
-**15 May**, closure of submission
-**01 June** selection and announcement of participants

https://de.unife.it/it/smartswa

Organized by: Università degli Studi di Ferrara — DE Department of Engineering Ferrara

Supported by: SafeWater Africa

This project has received funding from the European Union's Horizon 2020 research and innovation program under grant agreement No 689925.

DESCRIPTION AND GOALS

The summer school covers the main issues related to sustainable drinking water treatments and selection of adequate technologies. In particular lessons will critically review advantages and drawbacks of the different approaches for water treatment and drinking water production and management, also presenting the main results achieved within the EU H2020 SafeWaterAfrica project.

ACTIVITIES AND SCHEDULE

	Monday, Jul 01	Tuesday, Jul 02	Wednesday, Jul 03	Thursday, Jul 04	Friday, Jul 05
09:00 - 09:30		*Chemical treatments. Coagulation, precipitation, sedimentation, electrofiltration* (M. Rodrigo)	Technical visit to the drinking water plants		*New emerging contaminants in drinking water* (P. Verlicchi)
09:30 - 10:00	Welcome by authorities (Dean, research board President, PhD school coordinator)			*Disinfection byproducts* (P. Roccaro)	
10:00 - 10:30	Introduction to the school				*Water safety plans*
10:30 - 11:00	Presentation of participants	*Filtration* (M.Antonelli & A.Turolla)			
11:00 - 11:15	Coffe break			Coffe break	Coffe break
11:15 - 11:30					
11:30 - 11:45	*Main issues related to the problems of the drinking water* (P. Verliccchi)	Coffe break			SafeWaterAfrica: results approaching to the end of the project (M.Rodrigo)
11:45 - 12:30		*Oxidation, activated carbon, BAC* (S. Sorlini)		*Electrochemical system for safe water* (A. De Battisti)	
12:30 - 12:45	*Focus on variability of concentrations of the different pollutants. Monitoring of the quality* (F. Maffini)				
12:45 - 13:30					
13:30 - 14:30	Lunch	Lunch		Lunch	
14:30 - 15:30	*Microbiology in water* (G.M. Woolfaardt)	*Disinfection system (theory, applications, discussion)* (M. Antonelli & A.Turolla)		Case studies (different speakers)	
15:30 - 16:00	*Chemistry of water* (E. Bester)				
16:00 - 16:15		Coffe break			
16:15 - 16:30		Poster session		Coffe break	
16:30 - 16:45	Coffe break			Short presentation of the research by participants and Poster session	
16:45 - 17:30	*Pretreatments in case of surface water and groundwater* (P. Verlicchi)				
17:30 - 18:00		Presentation of the technical visit (P. Verlicchi)			

The course will be in English. It is oriented to PhD students who want to achieve a higher knowledge in the field of sustainable drinking water especially in developing countries, but also to other students or practitioners specifically interested in these topics.

Total hours: 35 of which: 27 classroom hours + 8 hours for the technical visit. A certificate of participation will be provided at the end of the summer school at each participant.

Confirmed speakers: Mustafa Al Aukidy (University of Baghdad), Manuela Antonelli (Polytechnic of Milan), Elanna Bester (University of Stellenbosch), Achille De Battisti (Gate s.r.l.), Francesco Maffini (HERA S.p.a), Luisa Pasti (T&A tech), Manuel Rodrigo (UCLM, Spain), Paolo Roccaro (University of Catania), Sabrina Sorlini (University of Brescia), Wendy Stone (University of Stellenbosch), Andrea Turolla (Polytechnic of Milan), Paola Verlicchi (University of Ferrara), Gideon Malherbe Wolfaardt (University of Stellenbosch).

APPLICATION INFOs

The applicants have to submit via e-mail (smart.swa@unife.it):

1) A cover letter with 1 page-statement of interest.
2) Curriculum Vitae, including current research fields.
3) A list of publications.
4) Release for reproduction and use of pictures and videos, available on: https://de.unife.it/it/smartswa)

Selection of participants will be carried out by organizers, according to the submitted documents, gender/country balance.

Maximum number of participants: 30

Fees: there is NO registration fee for the course.

SOCIAL PROGRAMME

1) Guided tour of the town (by bike or on foot) on Tuesday 2nd July, at 9:00 PM.
2) Technical visit on Wednesday 3rd July, from 9:00 AM to 5:00 PM.
3) Social dinner on Thursday 4th July, at 8:30 PM.

VENUE AND LODGING

Lessons will be held at the Technical and Scientific Pole, Via Saragat 1, Ferrara, Italy (Map and how to arrive below).

For the accommodation, a list of affiliated hotels is available at the link: https://de.unife.it/it/smartswa

ORGANIZER CONTACTS

Responsible: Paola Verlicchi

	email	Phone
Paola Verlicchi	smart.swa@unife.it	+390532974938
Andrea Ghirardini		+390532974927

How to arrive

The Technical and Scientific Pole is located in **Via Saragat, 1, Ferrara**. You can reach it from the center by bus (3C or 4C), by bike (ask the hotel to rent it) or on foot, walking along Via Garibaldi, turning left into Corso Isonzo, then turning right into Via Darsena, up to the pedestrian bridge of Via San Giacomo (about 20 minutes).