WATERSPY

High sensitivity, portable photonic device for pervasive water quality analysis





FINAL WORKSHOP

Tue 11 February 2020, 9:00 - 17:00 Istituto Italiano della Saldatura, Via Lungobisagno Istria 15, Genoa, Italy

Dogictration

8.30 - 0.00

WHAT IS WATERSPY?

WaterSpy is a device for on-line pervasive and monitoring of tap water.

For many contaminants, which will lead to human health hazards, good measurement devices are available. For bacterial contamination the situation is worse. Water utilites, public authorities and regulators rely heavily on trustable and fast water analysis. Especially E. Coli, Salmonella and P. aeruginosa are of interest for human Currently time-consuming health. and laboratory analysis have to be performed. WaterSpy focuses on these three strains of bacteria and develops add on device for currently available quality monitoring platforms. The device is able to perform automated and fast quality analysis for bacterial contaminants in water.

PROGRAM

8:30 - 9:00	Registration	13
9:00 - 10:15	Welcome and project introduction <i>Panayiotis Philimis, CyRIC (Project Coordinator)</i>	14
10:15 - 10:25	The need Nicola Bazzurro, IREN	14
10:25 - 10:40	The use of online monitoring devices applied to water safety plants Luca Lucentini, Istituto Superiore di Sanità	14
10:40 - 10:50	WaterSpy System Overview Alessandro Giusti, CyRIC	14
10:50 - 11:00	The pre-concentration module Panayiota Demosthenous, CyRIC	
11:00 - 11:30	Coffee Break	
11:30 - 11:45	The incubator, sample delivery and overall fluidics handling modules.	Vi
	Integration with the TRITON and user interface Alexandros Antonerias, AUG	16
11:45- 12:00	The acoustofluidic cell Bernhard Lendl, TUW	
12.00 12.50	,	
12:00 - 12:50	The optical setup	Pa
	 The QCLs, Stephane Blaser, ALPES The photodetectors and electronics, Artur Trajnerowicz, VIGO 	re (p de

The processing & control unit

Anastasios Doulamis, NTUA

	Lunch Break Testing and validation Antonio Varriale, CNR	
14:15 - 14:30	Novel sensing of Oil-in-Water using Quantum-Cascade-Lasers Wolfgang Ritter, QuantaRed Technologies	
14:30 - 14:45	Environmental, medical and industrial trace gas sensing using quantum cascade lasers Béla Tuzson, EMPA	
14:45 - 15:00	Wrap-up and future opportunities <i>Panayiotis Philimis, CyRIC</i>	
	Discussion – Conclusions	
~ 15:15	End of Workshop	
Visit of the Waterspy Demonstrator (Via ai Filtri, 25)		

15:30 Transfer to the demonstrator by shuttle 6:00 – 17:00 Visit of the demo (split in two groups) 17:15 Shuttle back to the city centre

Registration

Participation is free. For organisational reasons, please before 04/02/2020 at d.policastro@gisig.it please specify name, organisation, participation in the emo visit Yes/No).







JIGO SYSTEM









12:50 - 13:00