eMWRE Webinar Series

WATER RESOURCE MANAGEMENT USING INTERNET OF THINGS, REMOTE SENSING AND CITIZEN SCIENCE

As part of the new eMasters in Water Resources Engineering (eMWRE), a series of webinars will be held to show the value and application of Internet of Things (IoT), Remote Sensing (RS) and Citizen Science (CS) in the field of water resources engineering/management. Each webinar will also include time to engage with the expert panel during a Q&A session.The webinar series is free to attend and open to the public, however registration is required. Current and prospective students, researchers, and practitioners in the MENA region are encouraged to join. For more information and registration, go to emwre.eu/webinar.

eMWRE, an Erasmus+ Project, will implement an online Master program using innovative technology and advanced tools to provide more sustainable solutions to the water scarcity problems in the MENA region. More information on the program can be found at emwre.eu. **emwre.eu**.

February 18, 2021
17:00 EET/16:00 CET
Introduction to IoT and RS

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February 23, 2021
17:00 EET/16:00 CET
Flooding (IoT, RS, CS)

———

February 25, 2021
17:00 EET/16:00 CET
Water quality (RS)

———

March 2, 2021
17:00 EET/16:00 CET
Agriculture (IoT, RS)

———

March 4, 2021
17:00 EET/16:00 CET
Urban (IoT, RS, CS)

———

March 9, 2021
17:00 EET/16:00 CET
Data Management (IoT, RS)

———

March 11, 2021
17:00 EET/16:00 CET
Water quality (IoT)

———

March 16, 2021
17:00 EET/16:00 CET
Ecosystems (IoT, RS)

Co-funded by the Erasmus+ Programme of the European Union

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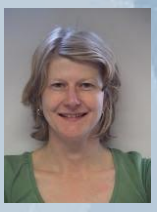
WATER RESOURCE MANAGEMENT USING INTERNET OF THINGS, REMOTE SENSING AND CITIZEN SCIENCE

INTRODUCTION

February 18, 2021
17:00 EET/16:00 CET
Hosted by Vrije Universiteit Brussel

EXPERT PANEL



Prof. Kris Steenhaut, Professor, Vrije Universiteit Brussel, Belgium

"Introduction to Internet of Things"

Dr. Charlotte Wirion, Guest Professor, Vrije Universiteit Brussel, Belgium

"Introduction to Remote Sensing"

FLOODS

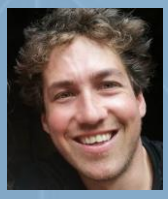
February 23, 2021
17:00 EET/16:00 CET
Hosted by IHE Delft, Fluves, and Jordan University

EXPERT PANEL

Prof. Leonardo Alfonso, Associate Professor in Hydroinformatics at IHE-Delft.

"Crowdsourcing for Flood Risk Management"

Thomas Van Hoestenbergh
Bio engineer, Fluves, Belgium



Styn Van Hoey
Bio engineer, Fluves, Belgium

"IoT sensors for Flood control"

Dr. Radwan Al-Weshah
Dean University of Jordan, Jordan

"Using remote sensing for flood monitoring"

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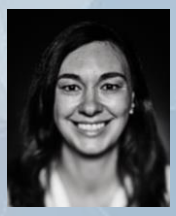
WATER QUALITY

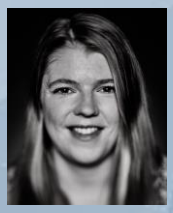
February 25, 2021
17:00 EET/16:00 CET
Hosted by Vito

EXPERT PANEL



Dr. Ils Reusen,
Project manager, Vito,
Belgium

"Monitoring water quality from space"



Liesbeth De Keukelaere,
Bio-Science Engineer, Vito,
Belgium

"Monitoring water quality from drones and fixed cameras"

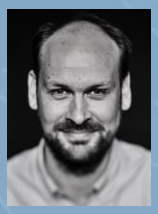
AGRICULTURE

March 2, 2021
17:00 EET/16:00 CET
Hosted by Vrije Universiteit Brussel, and Vito

EXPERT PANEL

Douglas Nyolei,
PhD student, Vrije Universiteit Brussel, Belgium

"Opportunities in IoT for improved monitoring and modelling of Agricultural systems"



Sven Gilliams
Team Leader, Vito, Belgium

"Agricultural Monitoring, and FAO's database on water productivity WAPOR"

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URBAN

March 4, 2021
17:00 EET/16:00 CET
Hosted by TU Delft, and VUB

EXPERT PANEL

Prof. Remko Uijlenhoet,
Professor of Hydrology, TU Delft, The Netherlands

" Opportunistic urban rainfall monitoring and forecasting "

Dr. Boud Verbeiren,
Guest Professor, Vrije Universiteit Brussel, Belgium

"FloodCitiSense: Citizens actively contributing to urban rainfall and flood monitoring "

Dr. Charlotte Wirion,
Guest Professor, Vrije Universiteit Brussel, Belgium

"Remote Sensing to quantify urban water fluxes"

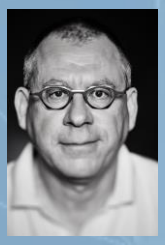
DATA MANAGEMENT

March 9, 2021
17:00 EET/16:00 CET
Hosted by IHE Delft, and Vito

EXPERT PANEL

Dr. Hans van der Kwast,
Senior Lecturer, IHE Delft,The Netherlands

"Sharing Open Data through Spatial Data Infrastructures"



Jurgen Everaerts
Business Developer, Vito, Belgium

"Terrascope: big data plaform for remote sensing"

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WATER QUALITY

March 11, 2021
17:00 EET/16:00 CET
Hosted by Vito, and VUB

EXPERT PANEL

Prof. Piet Seuntjens,
Program Manager, Vito, Belgium

"Internet of Water Flanders: a full stack approach to monitor water quality parameters "

Prof. Abdellah TOUHAFI ,
Professor, Vrije Universiteit Brussel, Belgium

"SMART-Water: IoT for lake water quality monitoring"

ECOSYSTEMS

March 16, 2021
17:00 EET/16:00 CET
Hosted by Ghent University, Warsaw University

EXPERT PANEL

Prof. Peter Goethals,
Professor, Ghent University, Belgium

"Innovative technologies for monitoring species distributions and behavior."

Prof. Jarosław Chormański
Professor, Warsaw University of Life Sciences, Poland

" Monitoring system for riparian wetland with use of eddy-covariance and remote sensing "

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