

1st Drought Symposium 2023

JUNE 12-16, 2023, BRUSSELS - BELGIUM

Schedule

Date: June 12th, 2023

9:00 - 9:10

Welcome speech by Prof. Ann van Griensven and Estifanos Addisu Yimer

9:10 - 9:30

Introduction to drought by Estifanos Addisu Yimer

9:30 - 10:15

Drought analysis advancements using drought indices by Maetens Willem (European drought observatory)

10:15 - 10:45 Coffee break

10:45 - 11:05

Assessment of the hydrological drought risk in Lithuanian sub-basins by Serhii Nazarenko

11:05 - 11:35

Impact of climate change on phreatic aquifer and groundwater drought indicators by Jan Corluy (Flemish environmental agency)

11:35 - 11:55

The impact of stormwater infiltration on groundwater quantity and quality in protection zones in Flanders by Lara Speijer

12:00 - 13:15 Lunch

13:15 - 14:00

SOS drought: is groundwater the problem or the solution? by Prof. Marijke Huysmans (VUB)

14:00 - 14:20

Groundwater conservation and flood hazard mitigation with adjustable weirs in agricultural drainage ditches by Lise Piepers



DROUGHT 2023

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14:20 - 15:05

Drought Impact on agricultural water use by Prof. Anne Gobin

15:05 - 15:35 Coffee break

15:35 - 15:55

Effect of drought on water quality by Tameremariyam Belachew

15:55 - 16:40

Drought under changing climate and drought risk assessment by Maetens Willem (European drought observatory)

16:40 - 17:20

Fostering readiness for nature-based water security - the role of knowledge by Prof. Nora Van Cauwenbergh

IUPWARE Alumni Event

17:20 - 17:30

Welcome words by Prof. Ann Van Grinesven

17:30- 17:40

Emeritus Award Presentation: Honoring Prof. Guido Wyseure

17:40 - 18:00

Keynote speech by Emeritus Prof. Guido Wyseure

18:00: 18:20

IUPWARE Career Insights and Success Stories
Dr John Okedi

University of Cape Town

18:30 - 20:00 Social Reception



Schedule

Date: 13 June 2023

9:00 - 9:20

Enhancing Drought Monitoring and Early Warning using Low-Cost Soil Moisture Sensors by Katoria Lesaalon Lekarkar

9:20 - 9:40

Development of pedotransfer functions to estimate some of soil hydraulic properties in Morocco by Adnane Beniaich

9:40 - 10:25

Early warning systems for drought risk reduction by European drought observatory

10:25 - 10:55 Coffee break

10:55 - 11:15

Nature based solutions targeting drought: critical state of the art review by Estifanos Addisu Yimer

11:15 - 12:00

Modern Watershed Investment Programs for addressing water security challenges using Nature-Based Solutions by Douglas Nyolei

12:00 - 1:30 Lunch

13:30 - 13:50

Monitoring drought using cosmic ray neutron sensor's soil moisture measurement based soil water deficit index (SWDI) integrated into the EDO combined drought indicator by Adane Irkiso



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13:50 - 14:35

Real-time groundwater flux monitoring: innovation and insights for next-level drought management in wetland ecosystems by iFLUX (Jeroen November)

14:35 - 15:15

Urban green infrastructure : how to monitor from satellites? by WEO (Imeshi Weerisanghe and Charlotte Wirion)

15:15 - 15:45 Coffee break

15:45 - 16:05

Future water scarcity in the Adige river basin with climate change and receding glacier volumes by Susen Shrestha

16:05- 16:30

Challenges and opportunities in the implementing process of Blue Green Measures: a law and governance perspective by Vincent Bellinkx

16:30 - 16:55

The potential of blue-green retention and infiltration measures for drought risk reduction (TURQUOISE project) by Jan Staes

16:55- 17:20

The Role of Innovation Centers for Drought Mitigation and Food Security in Developing Countries: Initiatives at Seifu BiT Makerspace, Bahir Dar University, Ethiopia by Amare Kassaw



DROUGHT 2023

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Date: June 14, 2023

08:30 - 18:00

Excursion

08:30- 12:00: Kinrooi: reuse of waste water and ditch water management

12:00-15:00 Lunch

15:00- 18:00 Nete: Nature based solutions

Date: June 15, 2023

09:00 - 17:00

Hands on exercise

Drought assessment using drought indices (meteorological drought)

Estifanos Addisu Yimer

Date: June 16, 2023

09:00 - 16:00

Hands on exercise

Groundwater-Surface water interactions for a better estimation of hydrological and agricultural drought

Estifanos Addisu Yimer

16:00 - 17:00

Hands on exercise on IoT
Katoria Lesaalon Lekarkar

