



UGANDA W&E WEEK



Uganda Water and Environment 2021 Program

Theme: Water and Environment security for socio-economic transformation of Uganda.

Venue: Ministry of Water and Environment ~ Luzira

Sunday 21st to Friday 26th March 2021

Sponsors and Partners







UGANDA WATER AND ENVIRONMENT WEEK (UWEWK) 2021

Sunday 21st – Friday 26th March 2021

OVERVIEW

The Uganda Water and Environment Week (UWEWK) is a weeklong event that provides an interface for knowledge exchange and dialogue on pertinent water resources issues among sector actors and other stakeholders. UWEWK 2021 borrows from the successes and lessons from **UWEWK 2018**, **UWEWK 2019** and **UWEWK 2020** and is organized under the theme: **“Water and Environment security for socio-economic transformation of Uganda.”**

It has four sub themes upon which papers, dialogues and applied trainings are organized:

- a) Valuing Water and Environment resources for socio-economic transformation of Uganda;
- b) Water and Environment in a creative economy;
- c) Managing Water and Environment shocks and
- d) Water and Environment security for smart urban growth

Focus of UWEWK 2021: Sector stakeholders will discuss the centrality of water and environment resources enhancing value addition in key growth opportunities; reduce environmental degradation and the adverse effects of climate change as well as improve utilization of natural resources for sustainable economic growth and livelihood security.

Key Event Activities

- a) **Sunday 21st March 2021 (2 to 5pm):** Opening ceremony and dialogue on Water and Environment security for socio-economic transformation of Uganda (**UBC and NBS TVs**)
- b) **Monday 22nd March 2021 (10 to 12pm):** Dialogue on Dialogue on valuing water and environment security for socio-economic transformation of Uganda (**Zoom**)
- c) **Tuesday 23rd March 2021 (10 to 12pm):** Dialogue on water and environment in a creative economy (**Zoom**)
- d) **Wednesday 24th March 2021 (10 to 12pm):** Dialogue on managing water and environmental shocks (**Zoom**)
- e) **Thursday 25th March 2021 (10 to 12pm):** Dialogue on water and environment security for smart urban growth (**Zoom**)
- f) **Friday 26th March 2021 (2 to 4pm):** UWEWK wrap and Closing ceremony (**UBC and NBS TVs**)
- g) **Monday 22nd to Friday 26 March :** Policy, Practice & Scientific Papers Presentation on theme and subtheme (**Zoom**)
- h) **Monday 22nd to Friday 26 March):** Applied trainings all in line with the theme and sub theme(**Zoom**)
- i) **Monday 22nd to Friday 26 March):** Field visits in line with the theme and sub theme(**Zoom**)
- j) **Monday 22nd to Friday 26 March):** A number of side events in line with the theme and sub theme(**Zoom**)

For more details please refer to the Program below.

For more information

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Follow us on social media: Twitter: @min_waterUg #UWEWK21, Facebook: facebook.com/Ministry of Water and Environment

Website: www.mwe.go.ug, www.uwewk.mwe.go.ug

UWEWK 2021 WELCOMES YOU

UGANDA WATER AND ENVIRONMENT WEEK (UWEWK) 2021

Sunday 21st – Friday 26th March 2021

OVERVIEW

Uganda Water and Environment Week (UWEWK) is a weeklong event that is organized annually by Ministry of Water and Environment (MWE) through the Water Resources Institute (WRI). Since its inception in 2018, the event seeks to contribute towards the attainment of Sustainable Socio-economic Transformation and achieving Ugandan National Development Plan and vision 2040. It provides an interface between sector actors and other stakeholders for knowledge exchange, dialoguing, learning for improvement of Uganda's water and environment resources. This year UWEWK2021 will explore the role water and environment resources will be play in:

- i. Increasing investment in value addition to environment and natural resources products and services,
- ii. Promoting natural resource accounting, to improve the national income measurement,
- iii. Promoting research, innovation and adoption of green appropriate technology to foster sustainable use and management of water and environment resources and
- iv. Reducing human and economic loss from natural hazards and disasters.

The UWEWK 2021 is intrinsically linked to: NPDIII which focuses on enhancing value addition in key growth opportunities; reduce environmental degradation and the adverse effects of climate change as well as improve utilization of natural resources for sustainable economic growth and livelihood security.

The overall theme of UWEWK 2021 is *"Water and Environment security for socio-economic transformation of Uganda"*.

Under the major theme, the following sub-themes are proposed to elaborate on value of water and environment security in transforming Uganda's economy and improved livelihood for socio-economic development.

Details of the sub-themes are as follows:

a) Valuing Water and Environment resources for socio-economic transformation of Uganda

The sub-theme will focus on sustainable use and value addition to water resources, forests, wetlands rangelands and other natural resources for increased incomes and employment. It will highlight the importance of raising awareness on the value of water, environment and natural resources in transforming the socio-economic status of Ugandan population and improve livelihood. The sub-theme will also focus on increasing investment in "value addition" to environment and natural resources products and services, promoting natural resource accounting to improve the national income measurement and marketing of the products using creative economy approach.

b) Water and Environment in a creative economy

This sub-theme will focus to innovative solutions for more efficient and productive development and management of water, environment and natural resources for sustainable socio-economic transformation of Ugandan population to the mid-class citizens. It will further look at the current position of creative industries in Uganda with a perspective to identify key issues to help the government to form a strategic plan of action aiming at building a strong premise for building its creative economy for employment, trade and development gains. Furthermore, it will look into ensuring coordinated and sustainable national infrastructure projects considering that Uganda's economy relies almost entirely on the stock of water, environmental and natural resources to produce goods and deliver services. It will also address the new approaches to achieving Water-Food-Energy nexus as well as approaches for addressing water scarcity through non-conventional water and

environment resources management approaches. Promoting of forest cluster-based wood processing industries and promoting of payment for ecosystem services, biodiversity offsets and benefit sharing arising from use of biological resources

c) Managing Water and Environmental shocks

This sub-theme will discuss how societies should manage and develop their water and environment resources to address risks associated with climate change at the same time improving people's livelihood. The sub-theme will also focus on the role of research, innovation and adoption of green appropriate technology to foster sustainable use and management of water and environment resources and reduce human and economic loss from natural hazards and disasters.

d) Water and Environment security for smart urban growth

This sub-theme will focus on innovation within the urban setting that will involve appropriate technologies in terms of: i) environmental concerns (air pollution, water and soil contamination); ii) poverty reduction and employment generation; iii) economic sustainability (cost benefit, short to long term) and iv) environmental sustainability (resource savings and reclamation, reduction in greenhouse gases (GHG) emissions) among others. Making urban excreta and wastewater management contribute to cities' economic development and research opportunities for linking sanitation infrastructure design and planning to business opportunities.

Overall Goal

The overall goal of UWEWK 2021 is improved understanding of the centrality and value of water and environment resources for transforming Ugandan's economy and improved livelihood.

Objectives

The objectives of UWEWK 2021 are to:

- a. Highlight value of water and environment resources for socio-economic transformation of Uganda.
- b. Deliberate on the role of water and environment resources in maintaining security, peace, public health and sustainable urban growth and improved livelihoods.

UWEEK 2021 WELCOMES YOU

National Organizing Committee



Dr Florence Grace Adongo
Director of Water Resources Management
Ministry of Water and Environment
**CHAIRPERSON, NATIONAL ORGANIZING
COMMITTEE**



Dr. Callist Tindimugaya
Commissioner, Water Resource Planning and Regulation
Ministry of Water and Environment
CHAIRPERSON, TECHNICAL COMMITTEE

MEMBERS OF THE ORGANIZING COMMITTEE

NAMES

Ms Flavia Waduwa
Dr. Nicholas Kiggundu
Rosemirta Birungi
Eng . Daniel Opwanya
Jane Nabuunya Mulumba
Margaret Mwebesa thieno
Joseph Epitu
Eng. Sonko Kiwanuka
Dr Yazdi Bamutaze
Dr. Ronald Semyalo
Dr Lawrence Orikiriza
Dr. Patrick Musinguzi
Barbara Ntambirweki
Lydia Ngozi
Spera Atuhairwe
Edwin Muhumuza

ORGANIZATION

Ministry of Water and Environment
Makerere University
AFID
PVT
IRC
MWE-Directorate of Environmental Affairs,
Ministry of Water and Environment
WSS Services
Makerere University
Makerere University
Makerere University
Makerere University
ACODE
GIZ-Uganda
Life Water International
Youth Go Green

John Okiira	ACODE
Faith Kanyago	UMI
Cate Zziwa Nimanya	Water for People
Sophie Kutegeka	IUCN
Ms Grace Katuramu	DDCL E
Gwendolyn Kyoburungi	Water Resources Institute
Christelle Kyatengegwa	MWE- Water Resources Planning and Regulation
Solomon Kyeyune	Consultant - WRI
Stacey Natukunda	MWE- Water Resources Planning and Regulation
Francis Xavier Kizito	MWE- Water Resources Institute
Atwiine Mathew Kariisa	Ministry of Water and Environment
Orijabo Albert	MWE- Water Resources Planning and Regulation
Waiswa Nelson	MWE- Water Resources Planning and Regulation
Irene Kambedha	MWE- Directorate of Environmental Affairs
Deus Kirunda	Ministry of Water and Environment
Emmanuel Jumba	Ministry of Water and Environment
Sowed Sewagudde	Ministry of Water and Environment
Anthelem Iragena	MWE- Water Resources Planning and Regulation
Nathan Mununuza	MWE- Directorate of Environmental Affairs
Geoffrey Ayeni	Uganda Walkers Association
William Mawenu	MWE- Directorate of Environmental Affairs
Dr Acan Santa Grace-Walkers	Uganda Walkers Association
Namuyiga Winnie	Water Resources Institute
Gerald Babi	MWE- Water Resources Planning and Regulation
Athamah Kajimu	MWE- Water Resources Planning and Regulation
Maimunah Kasujja	MWE- Water Resources Planning and Regulation
Rachel Atuhairwe	Water Resources Institute
Joshua Mugabi Nyombi	Water Resources Institute
Ssempe Michael	Water Resources Institute
Rehema Aanyu	UWASNET
Nancy Nahabbo	MWE- Water Resources Planning and Regulation
Atuhair Brenda	MWE- Water Resources Planning and Regulation
Kansiime Charity	MWE- Water Resources Planning and Regulation
Bulyaba Hanifa	Ministry of Water and Environment
Nalumu Jovan	Ministry of Water and Environment
Ms. Mary Namukose	GIZ-Uganda

CONTACT US

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Website: www.mwe.go.ug , www.uwewk.mwe.go.ug

For more details please refer to the Program below.

GUESTS at UWEWK2021 Opening Ceremony on 21st March 2021

Time 14:00 – 17:00



Rt. Hon. Dr. Ruhakana Rugunda
Prime Minister of Uganda



Hon. Sam Cheptoris
Minister
Ministry of Water and Environment



Hon. Ronald Kibuule
State Minister for Water
Ministry of Water and Environment
Environment



Hon. Beatrice Anywar
State Minister for Environment
Ministry of Water and



Ms. Rosa Malango,
UN Resident Coordinator

KEY NOTE SPEAKERS AND PANELISTS

SPEAKERS: Dialogue session on 21st March 2021 - Water and Environment security for socio-economic transformation of Uganda, Time 2 – 5 pm

KEY NOTE SPEAKER



Prof. Ken Strzepek.
Industrial Research Institute,
MIT

Panelists



Ms. Elsie G. Attafiah
UNDP Resident
Representative



Mr. Alfred Okot Okidi
Permanent Secretary - MWE



Prof Alex Ariho
Director General, Excel Hort
Consult Agribusiness
Incubator



**Hon. Mariam Mayanja
Nkalubo** Minister of Lands
and Environment, Buganda
Kingdom



Mr. Ramathan Ggoobi
Lecturer, Makerere University
Business School



Ms. Blick Carol Gloria
National Coordinator, Youth
Go Green Youth Clubs

KEY NOTE SPEAKERS AND PANELISTS

SPEAKERS: Dialogue session on 22nd March 2021 - Water and Environment in a Creative Economy, Time 10a.m. – 12:45 p.m.

KEY NOTE SPEAKER



Mr. Oliver Greenfield,
Convenor, Green Economy
Coalition

Panelists



Ronald Kaggwa
Manager- Production, Trade and
Tourism Planning
National Planning Authority



Dr Florence Adongo
Director, Directorate of Water
Resources Management



Dr Arthur Bainomugisha-
Executive Director, ACODE



Mr. Cornelius Kazoora
Consultant, Sustainable
Development Centre



Mr. Dean Muruven
Global Freshwater Practice
Lead - WWF International;

KEY NOTE SPEAKERS AND PANELISTS

SPEAKERS: Dialogue session on 23rd March 2021 - Water and Environment in a Creative Economy, Time 10 a.m. – 12:45 p.m.

KEY NOTE SPEAKER



Dr Nagaraja Rao Harsh,
Global Lead – Disruptive
Technology, World Bank

Panelists



David Duli
Country Director WWF
Uganda Country Office.



Patrick Badagawa
ED Private Sector Foundation



Dr Daisy Owomugasho
Country Director, Hunger
Project



Dr. Stuart Worsley
Green Economy Coalition,
Countries Programme
Director



Mr. Peter Kuria
Director Innovations and
Business Incubation,
AAAN

KEY NOTE SPEAKERS AND PANELISTS

SPEAKERS: Dialogue session on Wednesday 24th March 2021 - Managing Water and Environmental shocks, Time 10 a.m. – 12:45 p.m.

KEY NOTE SPEAKER



Dr. Musonda Mumba
Director, UNDP Rome Centre for
Sustainable Development

Panelists



Dr Radhika Murti
Director, Global Ecosystems
Management -IUCN



Dr Emmanuel Zziwa
FAO



Mr. James Collins Dombo
Ag. PS, OPM



KEY NOTE SPEAKERS AND PANELISTS

SPEAKERS: Dialogue session on Thursday 25th March 2021 Water and Environment security for smart urban growth, Time 10:00 a.m. – 12:45 p.m.

KEY NOTE SPEAKER



Dr. Graham Alabaster
Head-UN Habitat Geneva

Panelists



Dr Silver Mugisha
MD, NWSC



Mr. Edward Kiwanuka
Town Clerk, Gulu City



Mr. Fridtjof Behnsen
Head of GIZ NatuReS,
Tanzania



Ms. Dorcas Okalany
PS, Ministry of Lands



Ms. Chikondi Chabvuta
Regional Advocacy Adviser,
CARE SA



Ms. Jane Sembuche Mselle
Country Director, Water Aid
Uganda

KEY NOTE SPEAKERS AND PANELISTS

SPEAKERS: Dialogue session on 26th March 2021 UWEWK2021 WRAPUP, Time 2 to 5 p.m.

Panelists



Robert Limlim
Director of NUSAF3 (OPM)



Amb Attilio Pacifici
Head of EU Delegation in
Uganda



Dr. Alexander Danilenko
Sr. Water and Sanitation
Specialist, World Bank



Ms Anne Juuko
CEO Stanbic Bank;



Mr. Julius Mukunda
ED CSBAG



Eng. Joseph Eyatu
Director-DWD

7 - 20 March

UWEWK 2021 PRE-EVENT ACTIVITIES

PRE-EVENT #1: UWEWK 2021 Walk for Water, Environment, Climate Change and Public Health (371Km) from Kampala to Kasese led by Uganda Walkers' Association (9th to 20th March 2021)

PRE-EVENT#2: UWEWK 2021 Flip-flopi Lake Victoria Expedition in Uganda (7th to 22nd March 2021)

PREEVENT#3: Kingdom of Buganda Mini Open Day Exhibition at Bulange Mengo (12 March 2021)

15-20 Mar

PRE-EVENT #4: UWEWK 2021 - Writeshop (11th and 12th March 2021)

PRE-EVENT #5: UWEWK 2021 - Regional Activities (15th - 20th March 2021)

PRE-EVENT #6: High level Dialogue on Forest Restoration (18 March 2021)

PRE-EVENT #7: Running out of Trees (ROOTs) Run to launch the Annual 40 Million Trees Planting Campaign (21st March 2021)

Sunday 21st March 2021

OPENING CEREMONY: @ MWE Auditorium and Live on **UBC & NBS TVs.** and **ZOOM**

14:00 - 14:05 Welcome and Introduction to the UWEWK2021

14:05 - 14:10 Welcome Remarks by Chair, National Organizing Committee

14:10 - 14:20 Speech on the World Forest, Water and Meteorological days by the United Nations Resident Coordinator, Uganda

14:20 - 14:30 Welcome Speech by Minister of Water and Environment

14:30 - 14:45 Opening Speech by Guest of Honour, the Prime Minister of Uganda

14:45 - 15:10 **Key Note Presentation: "Water and Environment security for socio-economic transformation of Uganda"**

Key Note Speaker: Prof. Ken Strzepek. Industrial Research Institute, MIT, USA

15:10 - 15:15 TV Interlude and Health Break

15:15 - 16:45 Panel Discussion: Ms. Elsie G. Attafua - UNDP Resident Representative; Mr. Alfred Okot Okidi - Permanent Secretary, MWE; Prof Alex Ariho - Director General, Excel Hort Consult Agribusiness Incubator; Hon. Mariam Mayanja Nkalubo - Minister of Lands and Environment, Buganda Kingdom; Mr. Ramathan Ggoobi - Lecturer, Makerere University Business School; Ms. Blick Carol Gloria- National Coordinator, Youth Go Green Youth Clubs

Moderators: Charles Odongtho, UBC and Josephine Karungi, Consultant

16:45 - 17:00 Discussions and Feedback

END OF DAY ONE

Monday 22nd March 2021

Dialogue Sub-theme No. I - VALUING WATER AND ENVIRONMENT RESOURCES FOR SOCIO-ECONOMIC TRANSFORMATION OF UGANDA - (ZOOM)

10:00 - 10:20 **Key Note Presentation: "Valuing Water and Environment resources for socio-economic transformation"**

Key Note Speaker: Mr. Oliver Greenfield, Global Convener- Green Economic Coalition, UK

10:20 - 12:15 **Panel Discussion - Mr. Ronald Kagwa-** Manager, NPA; **Dr Arthur Bainomugisha-** ED ACODE; **Mr. Cornelius Kazoora-** Consultant; **Mr. Dean Muruven -** Global Freshwater Practice Lead - WWF International; **Dr Florence Adongo -** Director, DWRM -

Moderator: Ms. Sophie Kutegeka- CD IUCN

	12:15 - 12:45	Discussions and Feedback				
	LUNCH BREAK					
	Parallel Sessions (ZOOM)					
	14:-00 - 17:00	Session 1: Valuing Water and Environment resources for socio-economic transformation- Policy, Practice & Scientific Papers Presentation - Part I, (DWD Board room) refer to annex i	Session 2: Applied training: Natural Resources Based Business and Entrepreneurship: Climate Smart Aquaculture - Dr. Ronald Semyalo MUK (Zooka Board room) refer to annex ii	Session 3: Virtual Field visit: WASH in the Refugee Context – Delivering services beyond humanitarian response - Austria Development Agency (Nile Board room) refer to annex iv	Session 4: Side Event PPP Approach for accelerating access to Water and Sanitation in Uganda: National Water and Sewerage Corporation (IREC Board Room 3) Annex iii	Session 5: Side Event: Green Climate Fund Wetlands Project - UNDP (MWE Auditorium) refer to annex iii
	END OF DAY TWO					
Tuesday 23rd March 2021	Dialogue Sub-theme No. II - WATER AND ENVIRONMENT IN A CREATIVE ECONOMY (ZOOM)					
	10:00 - 10:20	Key Note Presentation: "Water and Environment in a Creative Economy"			Key Note Speaker: Dr Nagaraja Rao Harsh, Global Lead – Disruptive Technology, World Bank, USA	
	10:20 - 12:15	Panel Discussion: Dr. Stuart Worsley - Green Economy Coalition, Countries Programme Director; Dr Daisy Owomugasho - Country Director, Hunger Project/FRA; Mr. Gideon Badagawa- ED Private Sector Foundation; Mr. Peter Kuria- Director Innovations and Business Incubation, AAAIN; Mr. David Duli-Country Director, WWF Uganda Country Office				Moderator: Ms. Jane Nabunnya Mulumba -CD IRC
	12:15 - 12:45	Discussions and Feedback				
	LUNCH BREAK					
Parallel Sessions (ZOOM)						
14:-00 - 17:00	Session 6: Water and Environment in a Creative Economy - Policy, Practice & Scientific Papers Presentation,(Nile Board room) refer to annex i	Session 7: Applied Training: Natural Capital Accounting in Uganda: Introduction for Decision Makers- DEA (Zooka Board room) refer to annex ii	Session 8: Side Event: Addressing Climate Change impacts and their causes towards sustainable water and environment resources management and use- UWASNET (IREC Board room 1) refer to annex iii	Session 9: Virtual Field visits: Rain Water harvesting from rock outcrops- Akwang Rock catchment- Aid Environment. Virtual Field Visit: Bamboo utilization, possibilities and potential to improve livelihood, to restore land and mitigate climate change - INBAR (DWD Board room) (DWD Board room) refer to annex iv	Session 10: Side Event: The value of safe water supply in healthcare facilities for socio-economic transformation - IRC/WaterAid (IREC Board room 2) refer to annex iii	
END OF DAY THREE						
Wednesday 24th March 2021	Dialogue Session No. III- MANAGING WATER AND ENVIRONMENTAL SHOCKS - (ZOOM)					
	10:00 - 10:20	Key Note Presentation: "Managing water and environment shocks "			Key Note Speaker: Dr. Musonda Mumba - Director, UNDP Rome Centre for Sustainable Development, Italy	
	10:20 - 12:15	Panel Discussion: Dr Radhika Murti -Director, Global Ecosystems Management -IUCN; Dr Emmanuel Zziwa - FAO; Mr. James Collins Dombo -Ag. PS, OPM; Dr. Joshua Zake – ED, Environment Alert: Dr Charles Wana Etyem - Warner Consultants; Mr. Collins Oloya - Director, DEA.				Moderator: Prof Yazihdi Bamutaze - MUK
	12:15 - 12:45	Discussions and Feedback				
	LUNCH BREAK					
Parallel Sessions (ZOOM)						
14:-00 - 17:00	Session 11: Managing Water and Environmental Shocks - Policy, Practice & Scientific Papers Presentation, (Nile Board room) refer to annex i	Session 12: Career Talk for young professionals, refer to annex (IREC Board room 1) refer to annex iv	Session 13: Applied Training: IWRM- a tool for Integrating Climate Change Adaptation and Community Managed Ecological Disaster Risk Reduction in Uganda -IIRR (Zooka Board room) refer to annex ii	Session 14: Side Event: Climate Change Financing in Uganda-CSBAG (IREC Board room 2) refer to annex iii	Session 15: Side Event: Official launch of the GIZ programme Natural Resources Stewardship Programme (NatuReS) - GIZ (Auditorium MWE) refer to annex iii	

END OF DAY FOUR

Thursday 25th March 2021

Dialogue Session No. IV- WATER AND ENVIRONMENT SECURITY FOR SMART URBAN GROWTH- ZOOM

10:00 - 10:20 Key note presentation: "Water and Environment security for smart urban growth"

Key Note Presenter: Dr. Graham Alabaster, Head-UN Habitat Geneva

10:20 - 12:15 **Panel Discussions:** Dr Silver Mugisha- MD NWSC; Mr. Edward Kiwanuka- Town Clerk, Gulu City; Mr. Fridtjof Behnsen- Head of GIZ NatuReS, Tanzania ; Ms. Dorcas Okalany- PS, Min of Lands; Ms. Chikondi Chabvuta - Regional Advocacy Adviser, CARE SA; Ms. Jane Sembuche Mselle -Country Director, Water Aid Uganda

Moderator: Ms. Cate Zziwa Nimanya, CD Water For People

12:15 - 12:45 **Discussions and Feedback**

LUNCH BREAK

Parallel Sessions (ZOOM)

13:00 - 17:00	Session 16: Water and Environment Security for inclusive-growth - Policy, Practice & Scientific Papers Presentation - Part II, (Nile Board room) refer to annex i	Session 17 : Applied Training: The Shit Flow Diagram (SFDs) and City Service Delivery Assessments (CSDA) tools for enhancing sanitation service- Water for People & GIZ (IREC Board room 2) refer to annex ii	Session 18 Side Event: Trans boundary water cooperation focus on River Nile -Trans boundary Department MWE (Zooka Board room) refer to annex iii	Session 19: Side Event: Delivering Bonn Challenge Pledges in a way that benefits people and biodiversity: The Ugandan model - IUCN (IREC Board room 1) refer to annex iii	Session 20: Applied Training: Introduction to GIS Asset Mapping and Surveying - Engineers without Borders USA & WiGIS Uganda (DWD Board room) refer to annex ii	Session 21 Side Event: Official Launch of the WRI mentorship program for young and early career professionals in water and environment Sector- WRI (MWE Auditorium) refer to annex iii
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END OF DAY FIVE

Friday 26th March 2021

Parallel Sessions (ZOOM)

07:00 - 09:00 **Session 26:** Breakfast Meeting : UMA, MWE and GIZ- (Protea Hotel) refer to annex iii

9:00 - 12:30	Session 22: Youth Debate -Youth Go Green (IREC Room 1) refer to annex iv	Session 23: Physical field Visit: Pit emptying using the gulper technology; Makindye Division and Lubigi treatment plant - Water for people refer to annex iv	Session 24: Managing Water and Environmental Shocks - Policy, Practice & Scientific Papers Presentation, refer to annex (Zooka Board room) refer to annex i	Session 25: Valuing Water and Environment resources for socio-economic transformation - Policy, Practice & Scientific Papers Presentation, refer to annex (Nile Board room) refer to annex i	Session 27: Virtual Field Visit: Enhancing Resilience of Communities to Climate Change Through Catchment Based Integrated Management of Water And Related Resources in Uganda - EURECCA (DWD Board room) refer to annex iv
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LUNCH BREAK

UWEWK2021 WRAP UP & CLOSING CEREMONY: @ MWE Auditorium and Live on UBC & NBS TVs. and ZOOM

14:00 - 14:05 Welcome to the Closing Ceremony

14:05 - 14:20 UWEWK2021 Summary & Key Messages

14:20 - 15:45 **Panel Discussion:** Dr Robert Limlim - Director of NUSAF3 (OPM); Amb Attilio Pacifici- Head of EU Delegation in Uganda; Dr. Alexander Danilenko- Sr. Water and Sanitation Specialist, World Bank; Ms Anne Juuko- CEO Stanbic Bank; Mr. Julius Mukunda - ED CSBAG; Eng. Joseph Eyatu- Director-DWD

Moderators: Charles Odongtho, UBC and Josephine Karungi, Consultant

15:45 - 17:00 Closing Speech by Guest of Honour -Minister of Water and Environment

END OF UWEWK 2021 CONFERENCE

Annex I Papers and Presentations							
S/No.	Date of presentation	Time of presentation	Title of Abstract	Theme for UWEWK 2020	Category of applied research	Author's Name	Session Chair
1	Session 1: Monday 22/March/2021	14:05 - 14:15	Assessment of Kampala city groundwater vulnerability and possible management of the natural resource.	Valuing Water and Environment resources	Scientific	Johnson Pule	Dr Nicholas Kigundu
2		14:15 - 14:25	Groundwater Assessment in Kitgum District	Valuing Water and Environment resources	Scientific	Daniel Samson Okurut	
3		14:25-14:35	Increasing sustainable access to safe water through promoting rain water stone masonry and Ferro cement harvesting tank	Valuing Water and Environment resources	Policy	Richard Mpagi	
4		14:35-15:45	Effective demand for more reliable hand pumps in rural Uganda	Valuing Water and Environment resources	Practice	Daniel W. Smith	
5		14:45 - 14:55	Enhancing resilience of communities to climate change through a catchment based integrated management approach: experiences from EURECCCA Project	Valuing Water and Environment resources	Practice	Callist Tindimugaya	
6		14:55 - 15:05	Sustainable Land Management Paradigm, Harnessing Technologies for Nutrient and Water Management in the Great Lakes Region of Africa	Valuing Water and Environment resources	Practice	Musinguzi Patrick	
7		15:05-15:15	Bankable Nature Solutions, an innovative way to attract private sector and financial institutions into sustainable utilization of water and land resources in Uganda	Valuing Water and Environment resources	Practice	Namanya Beria	
8		15:15 - 15:25	Assessing the spatial and temporal variations in water quality along a segment of River Sironko on Mt. Elgon, Uganda	Valuing Water and Environment resources	Scientific	Justine Kilama Luwa	
9		15:25 - 15:35	Effect of land cover type on water yield in selected catchments of the Kyoga Water Management Zone, Eastern Uganda	Valuing Water and Environment resources	Scientific	Ellen Kayendeke	
10		15:35 - 15:45	Climate-Smart Watersheds: A framework for hydro social resilience to climate change in fragile catchments	Valuing Water and Environment resources	Scientific	Yazidhi Bamutaze	
11		15:45 - 15:55	Design and Construction of a Hydro Powered Water Pumping System and Power Generation System	Valuing Water and Environment resources	Scientific	David Kimera	
12		15:55 -16:05	Football for Community WASH Challenge-Tap and respond to Young adolescents	Valuing Water and Environment resources	Practice	Caroline Namale	
15		16:05 - 16:15	Community Led Wetland Restoration. Lessons from restoration of Papayo Wetland, Palisa district	Valuing Water and Environment resources	Practice	Moses Egaru	

16		16:15 - 16:25	Increasing biodiversity conservation and employment opportunities through Forest Landscape Restoration in Uganda	Valuing Water and Environment resources		Alex Hudson	
17		16:25 - 16:35	Refugee Participation in the Conservation of Wetlands in Uganda: Kyaka II Refugee Settlement	Valuing Water and Environment resources	Practice	Flavia Kunihiro	
18	Session 25: Friday 26/March/2021	10:05 - 10:15	IOT Based Irrigation System	Valuing Water and Environment resources	Scientific	Musa Nahaima	Dr Nicholas Kigundu
19		10:15 - 10:25	Sustainable Value addition of water and natural resources for increased income and employment through productive use equipment	Valuing Water and Environment resources	Practice	Tulina Solar Uganda	
20		10:25 - 10:35	The Challenges of Sustainable Management and Utilization of Water Resources in Uganda: A case of River Atari, Kyoga water management Zone-Uganda	Valuing Water and Environment resources	Practice	Haggai Ojwang	
21		10:35 - 10:45	Causes of Uganda's diminishing forest cover: A Case of Bugoma Central Forest Reserve	Valuing Water and Environment resources	Practice	Cotilda Nakyeyune	
22		10:45 - 10:55	Water Security Threats and Investment Opportunities in Greater Kampala Metropolitan	Valuing Water and Environment resources	Practice	Lydia Ngozi	
		11:55 - 11:05	Fruits of embracing IWRM Framework: A case of Kyoga Water management zone (KWMZ)	Valuing Water and Environment resources	Practice	Tumusiime Edmond Peter	
		11:05 - 11:15	Balancing Cost Recovery and Affordability: Findings from a Piped Water Project in Northern Uganda	Valuing Water and Environment resources	Practice	Noah Otim	
		11:15 - 11:25	Adaptive Planning and Management: Implementing WASH Programmes Flexibly in a Rapidly Changing World	Valuing Water and Environment resources	Practice	Rithwan Kalinaki	
		11:25 - 11:35	Potential application effects of 'Humate' Agro-input on release of Nitrates, Ammonia and Phosphorus in a Production Environment in Uganda	Valuing Water and Environment resources	Practice	Nuwarimpa Nagaba	
		11:35 - 11:45	Dynamics of Wood Value Chains for Smallholder Tree Farmers in Mubende District	Valuing Water and Environment resources		Abdul Samanya	
		11:45-11:55	Abstract from Protos	Valuing Water and Environment resources	Policy	George Bwambale	
23	Tues day 23/Ma	14:05 - 14:15	Innovative Solutions to Enhance Equitable Piped Water Supply Services in Uganda (Case of Umbrellas of Water and Sanitation)	Water and environment in a creative economy	Practice	Diana Keesiga	Rosemirta Birungi

24		14:15 - 14:25	Promoting inclusive water resources management practices for sustainable development in Uganda	Water and environment in a creative economy	Practice	Baker Matovu	
25		14:25-14:35	Financial empowerment of rural communities for water sustainability and agricultural growth	Water and environment in a creative economy	Practice	Chris Prottas	
26		14:35-14:45	Poultry: critical linkage between livelihoods and rural hygiene	Water and environment in a creative economy	Practice	Chris Prottas	
27		14:45 - 14:55	Implications of Vegetation Change on Catchment Hydrology in Awoja, Lake Kyoga Basin	Water and environment in a creative economy	Scientific	Ingrid Martha Kintu	
28		14:55 - 15:05	Water Supply KPI monitoring using Internet of Things (IoT)	Water and environment in a creative economy	Practice	Julius Bakeine Musiimenta	
29		15:05-15:15	Scaling up the use of Inclusive Finance for catchment restoration in Uganda	Water and environment in a creative economy	Practice	Sophie Kutegeka	
30		15:15 - 15:25	The Water Works Program for Ensuring Long-term Sustainability of Water and Sanitation Infrastructure in Kakumiro District: Lifewater International's O&M Strategy	Water and environment in a creative economy	Practice	Paul Oloya	
31		15:25 - 15:35	Supporting Women Groups to Produce Improved Energy Saving Stoves Using Local Materials; A Case of Awoja Catchment in Kyoga Water Management Zone	Water and environment in a creative economy	Practice	Benjamin Wanga	
32		15:35 - 15:45	Assessment of the Influence of Upstream Water Use and changes in Climatic Conditions across River Mpanga Catchment on Hydropower Production, Kamwenge, Uganda.	Water and environment in a creative economy	Scientific	Charles Onyutha	
		15:45 - 15:55	Effective coordination as key driver for achieving Water and environment security for socio-economic transformation of Uganda	Water and environment in a creative economy	Policy	Orishaba Judith-	
		15:55- 16:05	Responding to the COVID19 Pandemic through the Community Engagement Strategy	Dealing with water and environment shocks	Practice	Kumbulani Ndlovu	
33	Session 11: Wednesday 24/March/2021	14:05 - 14:15	Strategies for Managing Water Crisis-Case Study in National Water and Sewerage Corporation	Dealing with water and environment shocks	Practice	Derrick Arthur Ddumba	Dr Lawrence Orikiriza
34		14:15 - 14:25	Review Of The Use Of Exotic Tree Species And The Potential Impact On Environment In Uganda	Dealing with water and environment shocks	Policy	Alex Semakula	
35		14:25-14:35	Application of satellite data to develop drought early warning systems in Uganda	Dealing with water and environment shocks	Scientific	Josephine Mendela	
36		14:35 - 14:45	Determinants and Values of Willingness to Pay Towards Flood Management in Uganda	Dealing with water and environment shocks	Scientific	Ambrose Mubialiwo	
37		14:45 - 15:05	Water Quality Monitoring of Lake Victoria Using GIS and Satellite Imagery	Dealing with water and environment shocks	Scientific	Ssewankambo Gyaviira	

38		15:05 - 15:15	Hydrological characteristics underpinning landslides in Manafwa catchment, Mount Elgon	Dealing with water and environment shocks	Scientific	Moses Kutosi	
39		15:15-15:25	Trends and response of medium catchments to rainfall variability in tropical highland environments: A case of Sipi catchment on Mt. Elgon, Uganda	Dealing with water and environment shocks	Scientific	Justine Kilama Luwa	
40		15:25 - 15:35	Flood Hazard Assessment and Mapping of Flood Inundation Area of the Manafwa River Basin in Eastern Uganda using SWAT and HEC-RAS Model	Dealing with water and environment shocks	Scientific	Godwin Erima	
41		15:35 - 15:45	Assessing Soil Erosion Using Rusle and SDR Model	Dealing with water and environment shocks	Scientific	Sharon Akech	
42		15:45 - 15:55	Evaluation of Maize Yield Response to Different Levels of Water Stress During Off Season	Dealing with water and environment shocks	Scientific	Denis Nsubuga	
43		16:05 - 16:05	Increasing Income Through Irrigated Vegetable Production	Dealing with water and environment shocks	Scientific	Marty Fokink	
44		16:15 -16:25	Investigating the impact of a potential cascade dam failure on Victoria Nile as a result of failure of Nalubale and Kiira dam	Dealing with water and environment shocks	Scientific	Joel Martin Eyiiga	
		16:25 - 16: 35	Local Community Involvement in Restoration of Nyakahita Wetland, Maziba Catchment	Dealing with water and environment shocks	Practice	Mugisha Louis	
		16:35 - 16:45	Responding to climate change impacts through irrigation in Uganda: Challenges, Opportunities and Benefits	Dealing with water and environment shocks	Practice	Opolot Emmanuel	
		16:45 - 16:55	Application of WEAP-SWAT: A creative tool for assessment of water demand and availability under climate change in Mitano Catchment	Dealing with water and environment shocks	Scientific	Trust Brenda	
45	Session 24: Friday 26/March /2021	10:05 - 10:15	Water and Environmental Conservation for vulnerable resource dependent communities: A Call for Action	Dealing with water and environment shocks	Policy	Anthony Mugeere	Rosemirta Birungi/Dr Willy Kakuru
46		10:15 - 10:25	River Rwizi Catchment Degradation, Restoration and Effects On Community Livelihoods: Case Study for River Rwizi in South Western Uganda	Dealing with water and environment shocks	Scientific	John Okiira	
47		10:25 - 10:35	Water Budgets: Foundations for Managing Water and Environmental Shocks	Dealing with water and environment shocks	Practice	David Kataratambi	
48		10:35 - 10:45	Implementing a Landscape Approach to jointly address climate change and societal challenges in Uganda	Dealing with water and environment shocks	Practice	James Omoding	
49		10:45 - 10:55	Applying the Sense-maker tool to un-pack stakeholder perceptions for improved management and utilisation of environment resources	Dealing with water and environment shocks	Practice	James Omoding	
50		10:55 - 11:05	Harnessing Community Potential to Protect the Water and Environment Resource for Social Economic Transformation of Rwizi Catchment	Dealing with water and environment shocks	Practice	Dunstan Ddamulira	

51		11:05 - 11:15	Design and Construction of a Gravity Flow Rain Water Harvesting System for Irrigation	Dealing with water and environment shocks	Practice	Ivan Eric Okiror	
52		11:15 - 11:25	Scenario-Evaluation Gaming: A Sustainable Approach to Forest and Water Resources Management, a case of Mt. Elgon Water Tower, Uganda	Dealing with water and environment shocks	Practice	George Kimbowa	
53		11:25- 11:35	Status of Water Quality of Lake Victoria in relation to recent fish kills: a rapid assessment study within bays and pelagic zones	Dealing with water and environment shocks	Scientific	Deo Odota	
54		11:35 - 11:45	Abstract On Experiences On Establishment of Energy Saving Cook Stoves in Aswa Catchment as Alternative Livelihood and Energy Saving Technology	Dealing with water and environment shocks	Practice	Deneth Mugarura	
55		11:45 - 11:55	Assessment of the triggers of floods in the Rwenzori region	Dealing with water and environment shocks	Scientific	Brian Guma	
56		11:55 - 12:05	Assessing Environmental Management Challenges and Solutions in Maziba Sub Catchment. A case of River Kiruruma, Kabale district	Dealing with water and environment shocks	Practice	Tusiime Gilbert-	
57		12:05 - 12:15	Combating deep gullies in Maziba catchment. A Case study of Nyamurindira, Ruhanga and Kilembe micro catchments	Dealing with water and environment shocks	Scientific	Mugisha Louis	
58		12:15-12:25	Effect of Eutrophication on the Quality of Water along the Shores of Lake Victoria	Dealing with water and environment shocks	Scientific	Namukisa Victoria	
59	Session 17: Thursday 25/March/2021	14:05 - 14:15	De-carbonizing Kampala City Transport System	Ensuring water and environment security for sustainable urban growth	Practice	Joseph Kigozi	Dr. Patrick Musinguzi
60		14:15 - 14:25	Climate Resilient Urban Mobility by Non-Motorized Transport	Ensuring water and environment security for sustainable urban growth	Scientific	Joseph Kigozi	
61		14:25-14:35	Water Contamination: Its Effects, Prevention, and Climatic Impact. A Case of Uganda	Ensuring water and environment security for sustainable urban growth	Practice	Vincent Olema	
62		14:35-14:45	Seasonal dynamics of climate change on medium timescale and potential effect on patterns of hydro meteorological hazards in the Kyoga Water Management Zone	Ensuring water and environment security for sustainable urban growth	Scientific	Jesse Kitembe	
63		14:45 - 14:55	Hydrological regimes under dynamic land use and land cover changes in the Manafwa River catchment, Uganda	Ensuring water and environment security for sustainable urban growth	Scientific	Godwin Erima	
64		14:55 - 15:05	Assessing levels of heavy metals and E.coli in green vegetables grown in the Nakivubo wetlands	Ensuring water and environment security for sustainable urban growth	Scientific	Paul Elema	

65		15:05-15:15	Deterioration and Optimal Rehabilitation Models for Urban Water Distribution Systems: A case study of Kampala water, Uganda	Ensuring water and environment security for sustainable urban growth	Scientific	Rose Auma	
66		15:15 - 15:25	Adoption of Interlocking Stabilized Soil Blocks	Ensuring water and environment security for sustainable urban growth	Practice	Benon Kwikiriza	
67		15:25 - 15:35	Impact of Poor Stakeholder Collaboration On Wash-Data Chain Management: A Case Study of Mbale Municipality	Ensuring water and environment security for sustainable urban growth	Practice	Tumusiime Edmond Peter	
68		15:35 - 15:45	WASH systems building blocks – a tool for water service improvement in Kabarole District Local Government	Ensuring water and environment security for sustainable urban growth	Practice	Anobe Florence	
69		15:45 - 15:55	Evolving Sustainable Urban Growth through Multi-stakeholder Partnerships: The Greater Kampala PET Plastics Recycling Partnership	Ensuring water and environment security for sustainable urban growth	Practice	Masaaba Peter	
70		15:55 -17:05	Rapid Assessment and Design Study for Improved Waste Management in Kabango Town-Kiia Catchment, Masindi-Hoima, Uganda	Ensuring water and environment security for sustainable urban growth	Scientific	Kerudong Paskwale	

Annex ii Applied Trainings

Date	Time of presentation	Title Training	Overview	Mode of training	Organizers	Trainers	Venue
Session 2: Monday 22nd March 2021	14:00 - 17:00	Natural resources based business and entrepreneurship: climate smart aquaculture	An overview of aquaculture The aquaculture value chain An introduction to aquaculture systems – prospects and limitations Fish farming as a business Fundamentals of sustainable aquaculture Climate change and aquatic systems – an overview Aquaculture entrepreneurship – opportunities	Online and in person attendance using videos and lecture	Makerere University	Dr. Ronald Semyalo: Lecturer Makerere University	Zooka Board Room and on Zoom
Session 7: Tuesday 23rd March 2021	14:00 - 17:00	Natural Capital Accounting in Uganda: Introduction for Decision Makers	The main objective of the training is to share the motivation for Natural Capital Accounting (NCA) in Uganda, to provide knowledge on the steps for undertaking NCA in Uganda, the available statistics, data and tools	The training is designed as both a lecture and a sharing of experiences from current government processes	Department of Environment Affairs	Mr. Moses Masiga a consultant with the World Bank/ Wealth Accounting and Valuation of Ecosystem Services (WAVES), Dr. Sam Mugume Principal Statistician with the Macroeconomic Policy Department in the Ministry of Finance Planning and Economic Development. Mr. Ronald Kaggwa is the Manager Production, Trade and Tourism Planning for the National Planning Authority.	Zooka Board Room and on Zoom
Session 13: Wednesday 24th March 2021	14:00 - 17:00	Integrated Water Resources Management- a tool for Integrating Climate Change Adaptation and Community Managed Ecological Disaster Risk Reduction in Uganda	The linkage between IWRM, Ecosystems resilience, Climate change and Community Managed Disaster Risk Reduction (CMDRR) - is increasingly gaining recognition. However, this linkage is insufficiently understood by development practitioners. A Practical guide to implementation and mainstreaming of Climate Change adaptation, Disaster Risk Reduction and Ecosystems restoration within a river basin/catchment management framework will be provided in this training	Online and in-person attendance using videos and lecture	International Institute for Rural Reconstruction	Ms. Pamela Nyamutoka- IIRR Country Director Mr. Robert Kaliisa- Master Trainer-IWRM Climate Change & DRR-Uganda Mr. Isaac Bwire-DRR-CCA Regional trainer-IIRR	Zooka Board Room and on Zoom
Session 18: Thursday 25th March 2021	14:00 - 17:00	The Shit Flow Diagram (SFDs) and City Service Delivery Assessments (CSDA) tools for enhancing sanitation service	It will enable participants to apply tools: Identify data requirements for the development of SFDs and CSDAs , Understand the screen and to enter data for the production of SFD, practice the tools through a worked example, understand the support available to enable the development of an SFD and CSDA for the city, Learn from the authorities in Uganda on how the tools have been applied to advocate for safely managed sanitation	Online and inperson attendance for few. Participants should join from their laptops using a head set and camera participants are encouraged to download software and templates prior to the session Free SFD download and CSDA download	Water for People	Prof. Dr. Charles B. Nuwagaba has over 20 years of experience in research, teaching and consultancy in civil engineering. City Cecilia Rodrigues advisor at the sustainable sanitation sector program at GIZ GmbH. Dr. Najib Lukooya an international expert in the fields of Urban water and sanitation and has worked with cities and local urban authorities, utilities and international development agencies in Africa, Europe and USA. Yvonne Lugaali is a sanitation engineer at Water for People.	Zooka Board Room and on Zoom
Session 20: Thursday 25th March 2021	14:00 - 17:00	Introduction to GIS Asset Mapping and Surveying	AN In-depth look at GPS and GIS GIS Software – a look at Q-GIS as an example Collecting GIS data points	Lectures and discussions	Women in GIS (WiGIS) Uganda &	Women in GIS (WiGIS) Uganda & Engineers without Borders (EWB)-USA	DWD Board Room

			Final output examples – Asset mapping, elevations, survey data, etc.		Engineers without Borders (EWB)-USA		
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Annex iii Side Events

Sessions	Title	Organizer	Overview	Date	Organiser	Venue	Contact
Session 19	Delivering Bonn Challenge Pledges in a way that benefits people and biodiversity: The Ugandan model	International Union for Conservation of Nature (IUCN Uganda)	<p>The session will present a project led by the three organizing partners to establish indigenous tree nurseries in Uganda to help meet its 2.5m ha Bonn Challenge pledge in a way that benefits biodiversity and provides rural employment opportunities. 100 native tree species are available from nurseries, far more than the standard planting mix.</p> <p>The Ugandan audience, will be potential seedling purchasers, including NGOs, companies and government with the potential to scale up planting native species across Uganda.</p> <p>The project built on the Uganda Restoration Opportunities Assessment Methodology (ROAM) work, and has developed a model that can be replicated in other countries. The global audience will be government representatives, IUCN regional office staff and other Forest Landscape Restoration (FLR) actors from countries that have made ambitious Bonn Challenge pledges, carried out ROAM work or are implementing FLR.</p>	26th March 2021	IUCN	IREC Board room 1	Sophie Kutegeka
Session 5	Green Climate Fund- Wetlands Project	UNDP	<p>Government designed a wetland restoration project implemented under the presidential initiative. The Building Resilient Communities, Wetlands Ecosystems and Associated Catchments project is being implemented by the Ministry of Water and Environment (MWE), Ministry of Agriculture Animal Industry and Fisheries (MAAIF) and Uganda National Meteorological Authority (UNMA). The initiative co-funded by Government of Uganda, the Green Climate Fund and United Nations Development Program. With the implementation entering the fifth year, the project has demonstrated that sustainable use of wetlands will be key to water and environment security. Furthermore, given the crucial wetlands ecosystems services, restoring wetlands lays a strong foundation for ensuring water and environment security. This side event therefore, offers an important platform for sharing knowledge and understanding on the significance of wetland restoration based on this project experience. In this event, you will get exposed to the project and its outcomes through a video and dialogue jointly</p>	22nd March 2021	UNDP	IREK Board Room 2	Jimmy Toko
Session 8	Addressing Climate Change impacts and their causes towards sustainable water and environment resources management and use	Uganda Water and Sanitation Network (UWASNET)	<p>The UWASNET side event facilitates learning and sharing on Climate Change mitigation and adaptation measures from key partners in all the 4 East African countries namely; Uganda, Kenya, Tanzania, Somalia in line with the sub-theme of the side event</p> <p>It also facilitates deliberations on CSOs' participation in the Africa Climate Change Week planned for September 2021 and contribution to the Citizens Charter on Climate Change</p> <p>It also strengthens coordination of CSOs' contribution to and advocacy initiatives towards ensuring Climate Change mitigation and</p>	23rd March 2021	UWASNET	Off Site	Rehema Aanyu

			adaptation measures in East Africa.				
Session 10	The value of safe water supply in healthcare facilities for social-economic transformation	IRC Uganda	Uganda's vision for a modern and prosperous country by 2040 depends on a healthy productive population. While the health sector has recorded commendable progress in increased access to healthcare through building and upgrading health-centers in the community, healthcare planning and investment has not given adequate prominence to water supply, sanitation infrastructure, environmental and hand hygiene (WASH) in healthcare facilities. Research done in Kabarole by IRC, CDC and partners revealed that while water is the core to delivering basic services at the health-center, more than half (issues combined) had intermittent supply dependent on rainfall, had no drinking water stations, had unsafe with e-coli, had inadequate sanitation facilities with minimal water for cleaning. This is collaborated by similar research done by WaterAid. The side event will profile the silent debate on the socio-economic value of safe water supply in healthcare services. Lessons from practice, research and recommendations for policy action.	23rd March 2021	IRC and WaterAid	IREC Board Room 2	Jane Nabunnya Mulumba
session 12	Career Talk: Harnessing the possibilities of youth for the transformation of the water, sanitation and environment sector	Young Water and environment Professionals	A career talk is organized annually as one of the activities during the UWEK purposely to give professionals an opportunity to share challenges /barriers, their contribution towards improvement in the sector and learn about potential career opportunities in water and environment sector. the objectives are Ø To help the youth understand and embrace Government programs for sustainable growth. Ø To help young water and environment professionals in improving their understanding of sustaining career growth Ø To identify challenges youth face in the private sector and appropriate solutions to close the gap	24th March 2021	Young water and environment professionals	IREC Room 1	Mary Namukose
Session 14	Policy Dialogue on Climate Financing in Uganda	Civil Society Budget Advocacy Group (CSBAG)	CSBAG in 2020 assessed the State of Climate Financing in Uganda. The study revealed Uganda is still faced with a challenge of monitoring, tracking and reporting on climate change financials from both public and private sources. therefore this side event will focus on interrogating the fiscal interventions and their effectiveness on Climate Financing and discuss policy reforms and propose more efficient and responsive policy options for Climate financing in Uganda. The dialogue will be facilitated through a presentation of the findings from the Climate Financing report. This will be followed by a panel discussion of seasoned experts comprising officials from Ministry of Finance, Planning and Economic Development; Ministry of Water and Environment and Civil Society. Participants will have the opportunity to share opinions with our experts and with each other.	24th March 2021	CSBAG	IREC Board Room	Michel Ainebyona
Session15	Launch of the Natural Resources Stewardship Programme (NatuReS)	GIZ NatuReS/ MWE	Official launch of the GIZ programme Natural Resources Stewardship Programme (NatuReS), which enables multi-stakeholder partnerships on natural resources stewardship and	24th March 2021	Deutsche Gesellschaft für Internationale	MWE Auditorium	Peter Masaba

	and Partnerships		official launch of NatuReS partnerships including presentation of programme and partnerships and a panel discussion		Zusammenarbeit (GIZ) GmbH,		
Session 18	Create Awareness on the need for Trans boundary Cooperation	International and Trans boundary Water Affairs Department, MWE	Create Awareness on the need for Transboundary Cooperation – Nile Basin Initiative. Transboundary cooperation is key in sharing benefits on shared water resources like the Nile River for sustainable development of Uganda. Why evolution of transboundary cooperation in water management and how can transboundary cooperation be used as a springboard to national development?	25th March 2021	International and Trans boundary Water Affairs Department, MWE	IREC Board Room 2	Sowed Ssewagudde
Session 21	Launch of the Women Mentorship Program during UWEWK 2021	Water Resources Institute	WRI-MENTORSHIP program is a career-development fellowship that seeks to mentor the WOMEN, young and mid-career professionals in water and environmental related fields of practice by catalysing and strengthening their scientific and leadership skills. WRI-MENTORSHIP program is a trigger to awaken women, young and mid-carrier professionals 'capacity for management and development of water and environmental resources among networks of professionals across Uganda and beyond. This will be launched and the focus as follow 1. Key note address delivered by the commissioner Human Resources Ministry of Education. This will provide an over view of the mentorship as a unique support systems for development of careers. How this will help build a formidable force of female employees that are well suited to take on leadership opportunities in various government, civil society and private sector spheres. 2. Panel discussion: Four female panellists will engage in dialogue sessions to explore the value of mentorship in career development and professional growth. The proposed panellists shall include those that a current mentee, professional mentor, Human resource manager and female CEO.	25th March 2021	Water Resources Institute	MWE Auditorium	Solomon Kyeyune
Session 22	National Youth Debate on; Utilization of natural resources for sustainable economic growth & livelihood security	Youth Go Green	This first edition of the Debate will address the theme in its different components. It will focus on how water-related risks due to climate variability and change, combined with the rapid population growth, and increase in unemployment, constitute intimidating socio-economic perspectives for young people between the ages of 15-35 across Uganda Debate question; "This House believes that, youth employment and wealth creation without considering water and environment issues is not sustainable". At the end of the Debate, all participants will be requested to sign a declaration with a common commitment to undertake concrete actions in their communities to protect and conserve water and environment resources. The debate winners will be given tree seedlings to plant, an Award for winning the debate and a cash prize of UGX 1,000,000 (One Million shillings only). A youth declaration with "common commitment" will be among the outcomes of the Debate!	26th March 2021	Youth Go Green	IREC Room 1	Edwin Muhumuza
Session 26	Breakfast Meeting to be hosted by UMA	GIZ NatuReS/ MWE	As part of UWEWK21, Uganda Manufacturers Association (UMA) is hosting a breakfast meeting for key public sector actors and UMA members. The objective of the breakfast meeting is to create a platform for MWE and the private sector to foster a working relationship and deliberate on issues of mutual interest and of	26th March 2021	GIZ Natures	Protea Hotel Kololo	Peter Masaba

		<p>relevance for natural resource stewardship. Expected participants will be highlevel strategic decision-makers such as: From the public sector; PS, Directors and Executive Directors and from the private sector; Chief Executives. The breakfast meeting will be facilitated by NatuReS. It will be a private event not open to the wider public.</p>				
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Annex iv Virtual field Visit

Session Schedule	Title	Name of Site/ Field Visit	Hosting Institution	Format of the visist	Contact person	Venue
Session3: Monday 22nd March 2021	WASH in the Refugee Context – Delivering services beyond humanitarian response	EU- TF project sites (Ranch 1 in Kiryandongo District, Nyumanzi, Alere and Ayilo II in Adjumani and Bidibidi Zone 5 in yumbe, Ofua III, Omugo VI, and Olujobo/ Tika in Arua plus a faecal sludge treatment plant FSTP) in Dzaipi, Adjumani District	ADA	Virtual	Dr. Najib Lukooya & Ms Lilian Daphine Lunyolo	Nile Board room
Session 9: Tuesday 23rd March 2021	Rain Water harvesting from rock outcrops Bamboo utilization, possibilities and potential to improve livelihood, to restore land and mitigate climate change	Akwang Rock Catchment Various sites across uganda mostly in Bamboo growing regions in Uganda Like West Nile (Arua, Moyo and Nebbi), Mt Elgon Region (Bulambuli, Namisindwa and Mbale), South West (Kisoro, Rubaba and Kabale), Central (Kampala, Buikwe, Mityana and Mukono) and Northern Uganda	Aidenvironment International Bamboo and Rattan Organization (INBAR)	Virtual	Evelyne Busingye; Kintu Simon Peter	DWD Board room
Session 27: Friday 26th March 2021	Enhancing Resilience of Communities to Climate Change Through Catchment Based Integrated Management of Water And Related Resources in Uganda	Awoja, Maziba and Aswa catchments	Ministry of Water and Environment	Virtual	Nelson Waiswa and Annette Nantongo	DWD Board room
Session 23: Friday 26th March 2021	Pit emptying using the gulper technology; Makindye Division and Lubigi treatment plant	Makindye Division and Lubigi Treatment Plant	Water for people, KCCA & NWSC	Physical	Brenda Achiro	Site



KENNETH M. STRZEPEK

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Kenneth Strzepek is a leading researcher and practitioner at the nexus of engineering, environmental, and economics systems related to civil infrastructure. With a focus on water, food, and energy systems and climate-change adaptation, he investigates the role of climate change and infrastructure development on economic growth and poverty reduction.

Strzepek is a Research Scientist at the MIT Joint Program on the Science and Policy of Global Change, Professor Emeritus of Civil, Environmental, and Architectural Engineering at the University of Boulder at Colorado, and an Affiliated Faculty in Poverty and Development at Denver Seminar. He has spent 40 years as a researcher and practitioner at the nexus of engineering, environmental and economics systems, primarily related to water resource planning and management, river basin planning, and modeling of agricultural, environmental, and water resources systems. He currently is focused on climate change impacts on Infrastructure and the role of Infrastructure in Sustainable Economic Development. His work includes applications of operations research, engineering economics, micro-economics and environmental economics to a broad range of applications: from project scale to national and global investment policy studies. He has worked for a range of national governments as well as the United Nations, the World Bank, the USAID. He was an Adjunct Professor of Public Policy at The Harvard Kennedy School of Government, Senior Nonresident Fellow at the United Nations University's World Institute for Development Economics research, Visiting Professor at Tufts University, Carnegie Mellon University and Colorado State University. Visiting Senior Research Fellow at the International Food Policy Research Institute as well as an International Fellow at the Center for Environmental Economics and Policy for Africa and Examiner in the Department of Agricultural Economics at the University of Pretoria, South Africa. He has been a contributing author to the Second and Fourth IPCC assessment, the Millennium Ecosystem Assessment, the World Water Vision, and the UN World Water Development Report. He was the USAID Scientific Liaison Office on Water and Climate Change to the CGIAR. Prof. Strzepek has a PhD in Water Resources Systems Analysis from MIT, an MA in Economics from the University of Colorado, and is currently working on his PhD in Economics.



Oliver Greenfield, Convenor, Green Economy Coalition

Oliver leads the Green Economy Coalition, www.greeneconomycoalition.org, the world's largest multi-stakeholder alliance committed to the transition to green and fair economies. Made up of over 50 organisations, the Coalition brings together NGOs, business, research and international bodies who are united by a vision of prosperity for all within the limits of the planet. The Coalition's purpose is to accelerate the transition to green economies by building evidence, tracking the status of the global transition and convening diverse stakeholders around shared policy goals.



Nagaraja Rao Harshadeep (Harsh)

Global Lead (Disruptive Technology)

**Environment, Natural Resources & Blue Economy Global Practice
The World Bank**



Harsh is a Global Lead for Disruptive Technology at the World Bank. In 25 years at the World Bank, he has led and advised several environmental, water, and natural resources operational projects and analytical support around the world. This includes work on GreenTech, watershed management, transboundary waters, integrated basin planning and management, pollution, critical ecosystems, safeguards, and climate resilience. A particular focus has been to modernize water and environmental systems and institutions, including real-time monitoring systems, modern earth observation, analytical/decision support tools, public-domain data access, and the use of other emerging technologies. He represents the Sustainable Development practice group in a Bank-wide Disruptive Technology working group, co-leads the Bank's HydrolInformatics focal area, and has also been a Global Lead for Watersheds. He also leads a Disruptive KIDS (Knowledge, Information & Data Services) Helpdesk to provide support to operational teams on modern technologies.

Earlier, he worked with other international organizations, academia, and the private sector on environment, water analytics and water conflicts. He holds a Bachelor of Technology in Civil Engineering from the Indian Institute of Technology (IIT-Madras), a Masters' in Environmental and Resource Engineering from Syracuse, and a PhD in Water Resources and Environmental Systems Engineering from Harvard University



Dr. Musonda Mumba, a Zambian National, is the Director for The Rome Centre for Sustainable Development under United Nations Development Programme (UNDP) in close collaboration with Italian Government (Ministry of Environment and Ecological Transition). The Centre focuses on three priority areas notably: Climate Change, Sustainable Development and Nature Protection. In her role, she provides strategic leadership on these matters through convening, collaboration, connecting and co-creation as the world navigates complexity and uncertainty, with the aim of

achieving the SDGs collectively. Her ambition is that this work is done with a Systems Thinking lens

and also Systems Leadership. She has over 25 years' experience in environmental and conservation issues globally. She is also the Chair of the Global Partnership on Forest and Landscape Restoration (GPFLR).

She has published widely in various journals, newspapers, articles and contributed to book chapters. Before joining UNDP, Musonda was the head of United Nations Environment Programme – UNEP's Terrestrial Ecosystems Programme and served in various roles over a period of 12 years. Before working for UNEP, Musonda worked for the Zambian Government, Ramsar Convention on Wetlands (in Switzerland), WWF (at International, UK and East Africa Regional Offices) and as such working with governments on Africa, Asia and Latin America.

She received her BSc. Ed degree at University of Zambia and has a PhD from University College London (UCL) in Wetland Conservation and Hydrology. Outside her work her interests include abstract painting, cooking, running, yoga, mountain climbing and introducing her children to and teaching them about the natural world. She speaks English, French, Bemba and KiSwahili.



Graham Alabaster

Dr. Graham Alabaster is the Chief of Sanitation and Waste Management at the Urban Basic Services Branch of UN-Habitat. He is a public health engineer by profession. He leads UNHabitat's work on environmental infrastructure including health and environmental issues, waste management and sanitation. He has a special interest in urban health and environment and is experienced in provision of services to low income urban populations, to reduce negative health and environmental impacts.

Currently he is based in Geneva where he is collaborating with UNHCR on WASH in urban emergencies, WHO on urban development, health and environment and the monitoring of SDG 6, environmental management of vector-borne disease, and UPU focusing on addressing systems for slums to assist in the provision of basic services. Previously he was Section Chief responsible for Africa and Latin America in Human Settlements Financing Division of UNHABITAT developing both projects and normative work, with a special emphasis on leveraging support from the regional financing institutions. He is an Engineer by profession, with first degree in Chemical Engineering and a PhD in Civil Engineering. Starting his professional life as a Research Fellow, he travelled extensively in Africa, Asia and Latin America, providing technical assistance on sustainable wastewater management and sanitation, thereafter as an International consultant. He joined UNHABITAT in 1992 and has played a key role in building the Water, Sanitation and Infrastructure Branch. He is a Chartered Engineer and Fellow of the Royal Society of Health. He has over 35 years experience in the water sanitation and solid waste management sector, working in over 50 countries. In addition to designing and implementing projects in Africa and Latin America, he has global responsibility for policy issues relating to sanitation, pro-poor water and sanitation governance, solid and hazardous waste management, and monitoring water and sanitation
