



Workshop on:

Intensification of Agriculture through Natural Water Storage in Alluvial Aquifers for Small Scale Farmers in Arid and Semi-Arid Areas (ASAL) in Eastern Africa.

Based on case study of dry riverbeds in Kenya and Ethiopia.

Date:

24th - 27th February, 2020

Venue:

Sino-Africa Joint Research Centre (SAJOREC), Jomo Kenyatta University of Agriculture and Technology, Nairobi, Kenya

Objective of this Workshop: To develop strategies for capacity enhancement and research towards sustainable agricultural intensification by improving the resilience of African agriculture practices to cope with increased climate variability and water shortages through alluvial aquifers, while maintaining ecosystems, through innovative and environmentally sound nature-based water storage infrastructure that allow sustainable increase of supply of freshwater in Arid and Semi-Arid Lands (ASAL).

WORKSHOP PROGRAMME

Date	TIME	ACTIVITY	RESPONSIBLE
Monday 24 th February 2020	Arrival of local Partners		
	Project Meetings & Workshop Preparations & Organizations		
	Tea Break		
	10.00 - 10.15am	Opening Remarks by Dean, School of Civil, Geospatial and Environmental Engineering	Prof. Abiero Gariy (JKUAT)
	10.15 - 10.30am	Introductions	
	10.30 -11.00am	<i>Presentation: Introduction to the Nature Based Water Storage Infrastructure (NaBWIG) Project</i> • Objectives of NaBWIG Partners & Outputs	Dr Poolad Karimi (IHE Delft)
	11.00 – 11.30 am	Presentation on NaBWIG Kenya Project • Case study (Kajiado & Kitui)	Dr. Jeremiah Kiptala (JKUAT) & Dr Moses Mwangi (SEKU)
	11.30 – 12.00 pm	Presentation on NaBWIG Ethiopian Project • Case studies in Ethiopia	Dr. Eyasu
	12.00 – 12.45 pm	A4Labs Experience from Zimbabwe, Mozambique and Ethiopia	Prof. Pieter Van der Zaag
	1.00pm-2.00pm	Lunch Break	
2.00 -5.00 pm	<i>Group Activity – Developing structural representation of agricultural intensification based on natural water storage in alluvial aquifers</i>	Pooja, Pieter, Judith	
Tuesday 25 th February 2020	8.00 – 10.30 am	Group Activity - Presentations and discussions of the outcomes / output	Session leaders
	10.30am-11.00am	Tea Break	
	11.00am -1.00 pm	<i>Research Proposals & Output Presentations:</i> Viewing results & Methodology set-ups	Postgraduate Student Presentations – Boaz Bett; Sospeter Wekesa, Tesfa-alem, Imelda (max. 20 minutes presentation + 10 mins discussion)
	1.00 - 2.00 pm	• Lunch Break	
	2.00 - 4.30 pm	<i>Further - Research Proposals & Output Presentations</i>	Postgraduate Student Presentations – Judith Brummelkamp & Video conferencing with MSc Students at IHE Delft

Date	TIME	ACTIVITY	RESPONSIBLE
	4.30 -5.00 pm	• Tea Break & Networking	
Wednesday 26 th February 2020	8.00 - 10.30am	<i>Travel to Kajiado County via Emali</i>	Jeremiah / Kajiado County
	10.30am – 1.00pm	Field excursions in Mashuuru Dry Riverbeds	Jeremiah / Boaz / Kajiado County
	1.00pm	Lunch Break	
	2.00 –4.00 pm	Field excursions and Meeting local stakeholders	Boaz / Jeremiah / Kajiado County
	4.00 – 5.00pm	Travel to Kajiado Town & 1-night stay	
Thursday 27 th February 2020	8.00am – 1.00pm	Field excursions and Meeting local stakeholders – Toroka River System, Kajiado	Moses (SEKU)
	1.00pm – 2.00 pm	Discussions, further collaborations and way forwards in Toroka	Poolad & Jeremiah
	2.00pm – 3.30 pm	Return to Kajiado & Lunch Break	
	4.30 pm - Departures & Return to Nairobi		

LIST OF PARTICIPANTS

	Name	Institution	Position / Profession	Contact Details
	Water Resources Authority, Kenya			
1	Leah Mukiite	Water Resources Authority	Resources Mobilization & Partnership	+254 721 682736 leah.mukiite@wra.go.ke; mmusamia@gmail.com
2	Dr. Samson Oiro	Water Resources Authority	Geologist	C/O Leah
	Dr. Joash Oruta	Water Resources Authority	Hydrologist	C/O Leah
	Kajiado County Government			
3	Morris Njeru	Kajiado County Government	Director, Water and Irrigation	
4	Simon Kageche	Kajiado County Government	Irrigation Officer	
5	Peter K. Munke	Kajiado County Government	Sub-County Water Officer	
6	Jackon Angaine	Kajiado County Government	Environment Officer	
7	Anthony Mututua	Kajiado	Community Leader	
	Kitui / SEKU			
8	Dr Moses Mwangi	SEKU	Lecturer and PI	mnmwangi2000@yahoo.co.uk
9	Ms Imelda Njogu	SEKU	PhD - NaBWIG	imeldanjogu4@gmail.com
10	Joseph Muli Ndeke	Kitui	Community Leader	
11	Nicholas Nzuki	Kitui	Research assistant	
	National Environment Management Authority			
12	Joseph Kopejo	NEMA	County Director, Kajiado	+254 722 232766
	JKUAT			
13	Dr. Jeremiah Kiptala	JKUAT	P.I – NaBWIG (JKUAT)	Dept. Of Civil Engineering
14	Boaz Bett	JKUAT	PhD - NaBWIG	Dept. of Civil Engineering
15	Dr. James Messo	JKUAT	Agriculture / Irrigation Expert	Dept of Bio-systems and Env. Engineering

16	Prof. Abiero Gariy / Dr. Kimani Mwangi	JKUAT	Dean, SCEGE	Day 1 – Opening Remarks
17	Rachel Nyakundi	JKUAT / Kajiado County	PhD / Water Officer, Kajiado County	PAUSTI / Dept of Civil Engineering
	Ethiopia			
18	Eyasu Hagus	Mekelle University	P.I – NaBWIG (MU)	eyasu.yazew@mu.edu.et
19	Tesfa-alem	Mekelle University	PhD - NaBWIG	tesfa- alem.gebreegziabher@mu.e du.et
	IHE Delft			
20	Poolad Karimi	IHE Delft	Project leader	p.karimi@ihe.org
21	Pooja Prasad	IHE Delft	Postdoc -NaBWIG	p.prasad@un-ihe.org
22	Pieter ver der Zaag	IHE Delft	Prof. Water management	p.vanderzaag@ihe.org
23	Judith Brummelkamp	IHE Delft / TU Delft	MSc student	J.M.Brummelkamp@student .tudelft.nl
24	Sospeter Wekesa	IHE Delft	Researcher	+254 796 403 832 soswek@yahoo.com