

KeSEBAE NEWS



Newsletter of the Kenya Society of Environmental, Biological and Agricultural Engineers

VOLUME 5. NO. 7 23 AUGUST 2023



Deborah Njeri Harvesting Lettuce in Kibbutz Farm in Israel

DEAR READER

Welcome to KeSEBAE Newsletter.

A fortnightly Newsletter touching on topical issues affecting our environment.

KeSEBAE NEWS is a Newsletter of the Kenya Society of Environmental, Biological and Agricultural Engineers (KeSEBAE)

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5TH PAN AFRICAN SOCIETY OF AGRICULTURAL ENGINEERING (PASAE) AFROAGENG INTERNATIONAL CONFERENCE – 2023 NAIROBI, KENYA

About the Conference

The annual international conference for 2023, organized by the Kenya Society of Environmental, Biological and Agricultural Engineers (KeSEBAE) in collaboration with the Pan African Society for Agricultural Engineering (PASAE), is set to take place from Wednesday 6th to Friday 8th December 2023. The conference will revolve around the theme of "Engineering Agenda 2063: The Africa We Want."

Sub-Themes

i. Seamless Connections (Roads, Railways, Air Transport)

ii. Energy for Africa

iii. Industrialized Agriculture

iv. Housing

v. Free Trade in Services

vi. Security

vii. Sustainable Environment

viii. Engineering Education and Practice

Paper Submission

The conference avails an international platform for presentation of new advances and findings in diverse engineering fields. We therefore appeal to members to submit their papers. We encourage you to invite colleagues to participate in the conference and submit papers for the Conference Call for Papers.

Please submit your papers to events@kesebae.or.ke.

Key Dates:

Abstract Submission: 11 September 2023

Paper Submission: 10 October 2023

Payment Deadline: 25 October 2023





5TH PAN AFRICAN SOCIETY OF AGRICULTURAL ENGINEERING (PASAE) AFROAGENG INTERNATIONAL CONFERENCE – 2023 NAIROBI, KENYA (CONT'D)

Registration Details

Members: KES 15,000(\$150)

Non-Members: KES 20,000(\$200)

Undergraduate Students: KES 2,000(\$20)

Field Visit: KES 5,000(\$50)

Virtual: KES 10,000(\$100)

Registration Links

KeSEBAE Website: www.kesebae.or.ke

Web Link: https://kesebae.or.ke/about-us/events/conference-2023/

PASAE: www. pasae.org.za

Contact Details

Call: 0788712156

Email: info@kesebae.or.ke

Web: www.kesebae.or.ke









A YEAR OF GROWTH AND LEARNING IN ISRAEL'S ARAVA DESERT BY DEBORAH NJERI

As I reflect on my year as an Agricultural intern in Arava desert in Israel, I am overwhelmed by gratitude for the knowledge and expertise I attained. It was a journey that transcended my experience in agriculture. This unique journey was filled with appreciation, skills, friendships, and a shift that has reshaped my life.

Stepping into the realm of irrigation and agriculture experts after earning a BSc in Biosystems Engineering from the University of Nairobi was a golden opportunity. Landing at Ben Gurion International airport, the vibrant first-world atmosphere was a stark contrast to my home country, and my excitement for the journey ahead deepened.

Assigned to the Kibbutz in the southernmost town of Eilat, where the Red Sea meets the horizon, I embarked on a daily routine that began at dawn. Accompanied by fellow interns from across the globe from Asia and Africa, I soon realized that effective communication required Google Translate due to our diverse backgrounds. In the Arava, our days began with a tractor ride to the fields, where we laboured until the sun set. There were instances of working for extended periods - 10, 11 or even 12 hours. The kibbutz farm consisted of an orchard teeming with fruit trees, including dates, pomelos, grapes, grapefruits, lemons, and pomegranates. Through this experience, I absorbed the procedures of cultivating these fruits, including their irrigation system. Our farm also cultivated vegetables destined for local markets, encompassing onions, corn, kohlrabi, celery, parsley and many others.

Life on the Kibbutz was a captivating blend of culture and collaboration. Working side by side with Vietnamese, Thai, Sudanese, and Israeli workers, I not only learned about farming but also gained insights into their cultures and traditions. The first month was challenging, yet I embraced the rhythm and adapted to the tasks like a fish to water. The barren fields we worked on were a testament to the Israeli culture of diligence and determination.

Arava International Centre of Agricultural Studies became a beacon of knowledge. Weekly classes covering various topics such as pest management, viticulture, modern irrigation, mushroom cultivation, and business development among others expanded our horizons. Armed with this wisdom, we returned to the fields, bridging theory with practical applications.

Comparing agricultural practices between Kenya and Israel unveiled differences influenced by climate, technology, culture, and economics. Kenya's tropical climate supports diverse crops, while Israel's arid landscape thrives through technology-driven water management. The embrace of precision agriculture and cutting-edge research sets Israel apart, while Kenya's journey towards modernization is still unfolding. Kenya stands to benefit from adopting advanced agricultural practices from Israel. While our climates may be distinct, there's potential to embrace their research-oriented culture and precision agriculture methods, particularly for enhancing export-oriented productivity.

Beyond agriculture, Israel's vibrant culture left a mark. Exploring bustling markets, encountering diverse languages and enjoying the local cuisines, I was immersed in an array of traditions. Observing Shabbat, walking in the same footsteps that Jesus did (supposedly) and engaging with the global tourist community enriched my experience.

Embracing the journey wholeheartedly, I even learned a little of Hebrew and indulged in Israeli dishes like falafel, hummus, and pita bread. This rich cultural exposure was more than a footnote; it was instrumental in shaping my personal and academic journey.

As the year ended, my experiences bore fruit in unexpected ways. After returning home, securing a scholarship for a Masters in Water Resources Engineering at KU Leuven in Belgium was a testament to the doors this journey opened. I returned home, forever transformed by the knowledge gained, friendships forged, and the unyielding spirit of the Arava desert.

In conclusion, my year in Israel was a chapter of growth, empowerment, and seizing opportunities. The arid desert not only nurtured crops but also nurtured my personal and professional evolution. The echoes of dawn in the orchards and the diverse cultures continue to resonate within me, a reminder that this journey was not just a year, but a lifetime of transformation.

A YEAR OF GROWTH AND LEARNING IN ISRAEL'S ARAVA DESERT BY DEBORAH NJERI



Working on Garlic Farm



Harvesting Grapefruits



Pruning of Pomelo Fruit Trees



Planting of Melons Grafted onto Pumpkin Seedlings



Planting of Parsley Seedlings

Taking Harvested Lemons to the Packing House

A YEAR OF GROWTH AND LEARNING IN ISRAEL'S ARAVA DESERT BY DEBORAH NJERI



Stringing of Newly Sprouted Grape Stalks in Preparation for Budding

Cleaning of Drip Irrigation Filters



LunchBreak while Working on Crane in the Dates Field



Harvesting of Lettuce



Bagging of Date Fruits in Preparation for Harvesting



School Trip to the North of Israel





Call for Papers

To the Next Editions of the JEAE

Journal of Engineering in Agriculture and the Environment

The Journal of Engineering in Agriculture and the Environment (JEAE) is a Publication of the Kenya Society of Environmental, Biological and Agricultural Engineers (KeSEBAE) through which researchers in the fields of Environment, Agriculture and related fields share research information and findings with their peers from around the globe.

The JEAE Editorial Board wishes to invite interested researchers with complete work in any relevant topic, to submit their papers for publication in the next editions of the Journal.

Manuscripts may be submitted online or via email to:

Prof. Lawrence Gumbe, Chairperson, JEAE Editorial Board

Via Email: info@kesebae.or.ke or online via: https://www.kesebae.or.ke/journal/manuscript_submit.php

Criteria for Article Selection

Priority in the selection of articles for publication is that the articles:

- a. Are written in the English language
- b. Are relevant to the application of engineering and technology in agriculture, the environment and biological systems
- Have not been previously published elsewhere, or, if previously published are supported by a copyright permission
- d. Deals with theoretical, practical and adoptable innovations applicable to engineering and technology in agriculture, the environment and biological systems
- e. Have a 150 to 250 words abstract, preceding the main body of the article

- f. The abstract should be followed by the list of 4 to 8 "Key Words"
- g. Manuscript should be single-spaced, under 4,000 words (approximately equivalent to 5-6 pages of A4-size paper)
- h. Should be submitted in both MS word (2010 or later versions) and pdf formats (i.e., authors submit the abstract and key words in MS Word and pdf after which author uploads the entire manuscript in MS word and pdf)
- i. Are supported by authentic sources, references or bibliography

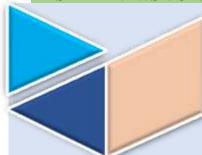
Our Expert Reviewers are Highly Regarded Globally and Provide Fast and Rigorous Review Services For additional details and online support visit: https://www.kesebae.or.ke/journal/instructions.php or visit our JEAE website at: https://www.kesebae.or.ke/journal/

CALL FOR ARTICLES TO KeSEBAE NEWS

KeSEBAE NEWS Editorial wishes to call for topical articles for publication in future editions of KeSEBAE NEWS.

Please transmit the same to the Editor: Ezekiel Oranga via Email: info@kesebae.or.ke

NOTE: A payment will be made to the author of each selected article



CALL FOR MEMBERSHIP



Be a KeSEBAE Member:

The annual subscription fees, admission fees and reinstatement fees for members of all grades (except Honorary and Life Members who shall pay no dues or fees) are indicated below: The annual dues are as follows:

Membership Category	Annual Subscript	Admissi on Fees	Reinstatem ent Fees
	ion (KES)	(KES)	(KES)
Fellow	5,000	1,000	2,000
Member	2,000	1,000	2,000
Ass.Member	1,000	1,000	2,000
Aff.Member	500	1,000	2,000
Student	300	100	-

Membership Renewal

Members of all grades are requested to renew their **2022 membership as follows.**

Membership Category	Annual Subscription Fee (KES)
Fellow	5,000
Member	2,000
Ass. Member	1,000
Aff. Member	500
Student Member	300

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PAYMENT DETAILS

Bank		
Bank	Absa Bank Kenya Plc	
Branch	Nairobi University Express Branch	
Account Name	Kenya Society of Env. Bio. & Agric. Engineers	
Account No.	2038150696	
Swift Code	BARCKENX	
Currency	Kenya Shillings	

M-PESA DETAILS

Pay Bill No.: 4002575 Account No: Your Full

Name







Important Links		
KeSEBAE	https://www.kesebae.or.ke/	
JEAE	https://www.kesebae.or.ke/journal/	
EBK	https://ebk.or.ke/	
IEK	https://www.iekenya.org/	
PASAE	http://www.pasae.org.za/	
Email	info@kesebae.or.ke	