

# IEEE KENYA SECTION NEWSLETTER.



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**PREPARED BY MERCY CHELANGAT K.**

## IEEE MOI UNIVERSITY STUDENT BRANCH

After more than one year of petitioning, the Moi University Student Branch received approval on the 28th January 2018. The branch was petitioned with 15 undergraduate student members and 3 lecturers. A majority of them were Electrical Engineering students.

A month after its formation, membership has flourished to over 60 members, with its coverage spreading across a number of schools in the institution. A hearty congratulations goes out to Kithinji Muriungi the Branch Chair and his team for spearheading the efforts that saw this successful step through.

There have been a number of successful activities conducted since the inception of the student chapters, including the formation of different societies such as the Power Energy Society and the Communications societies.



## IEEE JKUAT STUDENT BRANCH

The petition chaired by Ignatius Maranga to form the branch saw it come to life after a long period of trying to amass the required number of members. After receiving all the necessary endorsements, and passing through the approval stage, the branch was formed. They will be actively participating in the necessary activities as soon as possible. The future is bright as more members are coming on-board to join the branches. We wish the newly formed branches all the best and urge more branches to come up.

# IEEE & IBM TRAININGS

## *BUSINESS INTELLIGENCE (BI)ANALYSTS*

The BI Analysts training was aimed at training the members on BI Analytics using the Cognos Software. Mr. Munyao, the trainer, is a certified IBM Big Data instructor with a specialty in BI.

The training attracted a total of 54 trainees from different capacities: 49 IEEE Moi University Students Branch members of which 3 were lecturers and 5 students from Masinde Muliro University of Science and Technology.

During this training, participants were inducted into the IBM Skills Academy whose aim is to bridge the gap between the university and the industry market that are beneficial to both students and lecturers. This hands on approach ensured that everyone who attended the training was well prepared for the Explorer Award and the Mastery Award tests. All members passed the Explorer Award and were able to take the Mastery Award exam. The mastery award was impressively done with a pass rate of 89%. The event closing ceremony was held on the last day after five days of training.



The in-attendance was the Associate Dean of the School of Engineering Moi University, Prof. Kibii and Mr. John Matogo, the IBM East Africa University Relations Lead. Mr. Matogo applauded the effort made in organizing the training and highlighted some important resources and opportunities availed by IBM that IEEE student members and also University staff could use to expand their skill-set. These included Digital Nation Africa which bridges the gap between the job one desires and the skills required. Prof. Kibii also promised to work with Mr. Matogo to establish an IBM Center of Excellence in Moi University.

## APPLICATION SECURITY ENGINEERING

The members were trained to become application security engineers using the IBM AppScan Standard software. The trainer was Mr. Munyiri – Certified IBM Instructor in Web Application Security. The training was also held in Moi University on 9th to 13th April. The event was officially opened by the Dean School of Engineering Moi University, Prof. Eng. Simiyu S. Sitati.

Following the previous successful event, this time the training attracted 62 trainees from different schools in the university and neighboring institution, the University of Eldoret. It is worth noting that the Head of Department Electrical and Communication Department School of Engineering was one of the trainees for both trainings. Through the trainings, the branch significantly grew its membership with 10 non IEEE students becoming members by subscribing to the student membership. .



**MR. JOHN MATOGO  
R8 ACTION FOR INDUSTRY  
AFRICA AMBASSADOR**



# IEEE DAY KENYA SECTION

VENUE: RIARA UNIVERSITY

The theme of the day was Leveraging Technology for a Better Tomorrow. The worldwide celebrations demonstrate the ways thousands of IEEE members join together to collaborate on ideas that leverage technology for a better tomorrow. All IEEE members were celebrated on this day. We thank Lavender Ndunya for seeing the event through and Mr. John Matogo for gracing the occasion. Esther Kagunya, Chief ICT Officer National Police Service Headquarters & guest speaker had a lot to say with regards to encouraging more members to join IEEE.

## COMSOC STRATHMORE DL TOUR

### KEY WIRELESS ACCESS TECHNOLOGIES IN 5G & IOT SYSTEMS

Device-to-Device (D2D) communication, NOMA, MU-MIMO and mmWave are among the key technologies in the next generation (5G) cellular networks to support Internet of Things as they can significantly improve the system connectivity, spectrum efficiency and energy efficiency. The talk by Prof. Rose Qingyang Hu, a senior member of IEEE & Phi Kappa Phi Society and a full professor of Electrical and Computer Engineering Department at Utah State University explored the detailed 5G system model, technology background, mathematical approaches and performance results based on both analysis and simulations. Mr. Izael Pereira Da Silva, the DVC Research and Innovation was in attendance.

## TECHNICAL PAPER WRITING

The technical paper writing is a 2-hour session which highlights the guidelines to be followed by writers who yearn to have their papers accepted for presentation in conferences. It will focus on formatting a written word document to suit the expectations of conference chairs. Also, it will then expose authors to avenues through which they can get funding towards presentation of their conference papers, from conference registration to travel grants both locally and internationally.

It is being rolled out in universities, targeting both lecturers and students. Both Moi University and Kabarak University have benefitted from these sessions over the recent weeks.

It is free for IEEE members only.

## HATS OFF TO OUR REPS AT THE PES T&D CONFERENCE.



Our hearty congratulations go to Lavender Ndunya and Gerald Too for representing the Section at the ongoing PES Transmission and Distribution Conference in Denver, Colorado after being granted scholarship by IEEE. Keep the Kenyan flag flying high. A number of members are set to attend more of such conferences and we would like to wish them the very best.

## THE EXCOM TEAM



**CHARLES ONYANGO**  
IEEE Chair Kenya Section



**VINCENT EGESSA**  
Vice Chair IEEE Kenya Section  
Industry Outreach.



**JOHN MATOGO**  
IEEE R8 Action for Industry,  
Kenya & Africa Ambassador



**ESTHER MUCHIRI**  
IEEE Kenya Secretary, Women  
in Engineering Chairperson



**HUMPHREY MUHINDI**  
IEEE Chair Communications  
Society Chapter, IEEE TEMS  
YP Region 8 Industry Lead



**ALEX WATILA**  
Professional Activities,  
Conferences & Events  
Committee



**ELIUD LIMO**  
IEEE Power Energy Society  
(PES) Chapter Chair



**REINHARDT RADING**  
IEEE Electronic Communication  
Publications Chair



**TIM GITAU**  
IEEE Kenya Treasurer



**GERALD TOO**  
IEEE Chair Young  
Professionals (YP) Kenya



**KITHINJI MURIUNGI**  
IEEE Moi University  
Student Branch Chair



**IGNATIUS MARANGA**  
JKUAT University SB  
Chair, Membership  
Development

## GLOBAL POWER ENERGY SOCIETY DAY

It was celebrated at the Strathmore Energy Research Center on the 22nd April 2018. It was graced by the interim Chair Eng. Eliud Limo of Kenya Power. Other excom officials in attendance included Sir. Charles Onyango and Humphrey Muhindi. PES provides the world's largest forum for sharing the latest in technological developments in the electric power industry.



Members were inducted around the solar plant, 600kW grid-tie system. One of its kind in the region. The members were also exposed to the training which take place there and encouraged to take them up for their professional development. Under PES, is an initiative called Women in Power (WiP) which promotes diverse leadership by supporting job growth, professional networks and women's education in the energy industry. The goal of WiP is not only to increase the number of women in the energy sector but also to encourage women to occupy leadership positions.

## WELCOME MMUST TO THE CLUB



Here's to the newest  
Student Branch,  
Masinde Muliro  
University of Science  
& Technology.  
The Kenya Section is  
happy to have you on  
board.



**STEPHEN OGENGA**

Educational & Student Activities

**MARTIN NZOMO**

Immediate Past Chair

**WILFRED MWEMA**

Nominations and Appointments

**MACHARIA WANYOIKE**

SIGHT (Special Interest Group on Humanitarian Technology)



**"AS ENGINEERS, WE ARE GOING TO BE IN A POSITION TO CHANGE THE WORLD - NOT JUST STUDY IT."**

**HENRY PETROSKI**

**Why should you join US?**

**Upcoming Exciting Events**

**EXPLORE THE WORLD OF IEEE**

**WHY MEMBERS JOIN**

1. REMAINING TECHNICALLY CURRENT
2. ACCESS TO PUBLICATIONS
3. NETWORKING



**WHO MAKES UP THE MEMBER POPULATION**

- 44% PRIVATE INDUSTRY
- 24% EDUCATIONAL INSTITUTION
- 11% PUBLIC/GOVERNMENT
- 7% SELF-EMPLOYED/CONSULTING
- 4% UNEMPLOYED
- 3% NON-PROFIT INSTITUTION (NON-EDUCATIONAL)
- 3% RETIRED
- 2% OTHER



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**HOW FAR MEMBERSHIP CAN TAKE YOU**



1. IEEE ESEK Symposium  
Venue: Riara University  
Date: June 29-30, 2018  
NB: Students are advised to get their projects ready for exhibition.

2. Region 8 Students Young Professionals Congress  
Venue: Porto, Portugal.  
Date: July 25-29, 2018.

3. IEEE Kenya Section Awards & Recognition Gala Night, Nairobi.  
The exact venue & date will be communicated in due time.

4. IEEE Intl. Conference on Soft Computing & Machine Intelligence (ISCMi 2018)  
Venue: University of Nairobi  
Date: November 21-22, 2018

**JOIN TODAY – [ieee.org/join](http://ieee.org/join)**

