MESSAGE FROM THE CENTRE LEADER

On behalf of the leadership of the ACEII - PTRE and, indeed, on my own behalf, I warmly welcome you to this 4th edition of the Center's newsletter.

About the ACEII-PTRE Centre
ACEII- PTRE Center based at Moi University, Eldoret, Kenya, was established in the year 2016. The objective of the ACE II Project is to strengthen selected Eastern and Southern Africa higher education institutions to deliver quality postgraduate education and build collaborative research capacity in the regional priority areas. The project commenced in 2016. It is one of the three Centres of Excellence based in Kenya and among the 24 in the entire Eastern and Southern Africa. It is the only Centre in Kenya among the four Centers in Eastern and Southern Africa hosting a Regional Incubation Centre. The ACEs are expected to address specific development challenges and skills gaps facing the region through graduate training in Masters’, Doctorate (Ph.D.) and short-term courses and applied research in the form of partnerships and collaborations with other institutions as well as the private sector.

Impact of the ACE II-PTRE Centre
Since its inception, the Center has made a great impact on resource mobilization to the University in terms of infrastructural development such as lecture rooms and laboratories, among others. It has also contributed in capacity building by offering scholarships for staff and students, and staff exchange programmes. Such contributions have enabled Moi University to enhance its global visibility in research, innovation and teaching. I, therefore, take this opportunity to thank the World Bank for its noble idea to establish Centers of Excellence across Africa, and the Republic of Kenya in particular through the Ministry of Education, and for facilitating Moi University to be a beneficiary of the same. The local community has also greatly benefitted from the Project through outreach services in short course training on self-sustainability through making detergents and soap, making of natural dyes, and training on biogas production for surrounding high schools, just to mention a few.

To Graduating, Continuing and Prospective Students
We are very proud of our students who are graduating on Friday August 13, 2021. We pride in you since you are our ambassadors as you step outside the gates of Moi University. Uphold the image of ACEII PTRE with utmost dignity and preach the good experiences you had with us.
We also pride in our continuing students for their continued confidence in the Centre and for selecting to pursue their higher education with us. You are a testimony that indeed ACEII PTRE is a Centre worth its salt. To our prospective students, Moi University, and indeed, ACEII PTRE is the place to be. Aspire to join us to further your postgraduate studies and you will never regret.

Conclusion
I wish to take this opportunity to welcome you to read in depth the news, activities and achievements of the Africa Center of Excellence in Phytochemicals, Textile and Renewable Energy.

Thank you

PROF. AMBROSE KIPROP, Ph.D.
CENTER LEADER, ACEII PTRE
On behalf of the ACEII-PTRE Centre of Moi University, I wish to take this opportunity to welcome our stakeholders who are also our readers of this Newsletter that is our fourth edition.

ACEII-PTRE’s aim is to advance technology development and innovation in Phytochemicals, Textile and Renewable Energy through delivery of quality post-graduate training and collaborative research in the regional priority areas. Thus, ACEII-PTRE has a special focus on capacity-building for the manufacturing sector which is projected to play a critical role in the economic growth of the country and the region at large.

This achievement would require an increase in highly skilled personnel in the area of Science, Technology, Engineering, and Mathematics (STEM) to facilitate the manufacture of skill-intensive products of high value and quality. However, the Eastern and Southern Africa lags behind other regions in higher education and research output in Science and Technology. This is evident from regional surveys which reveal that firms experience acute challenges in filling technical and managerial positions, not just due to the inadequate number of graduates but also due to low quality and relevance of their education and training. In particular, inadequacy in personnel and in particular female with advanced training in textiles, phytochemicals and renewable energy fields has been confirmed.

To bridge this skill gap, ACEII PTRE in collaboration with national, regional and international partners has taken a lead in contributing towards a regional solution of transforming Science and Technology in Africa for the manufacturing sector through so far achieving the following results:

- Admitted and trained 48 PhD students and 106 MSc students in areas of manufacturing involving Analytical Chemistry, Textile, Industrial Engineering and Renewable Energy from over 13 countries including: Kenya, Malawi, Zambia, Uganda, Tanzania, Camerooon, Zambia, Rwanda, Ethiopia, Sudan, South Sudan, Zimbabwe, Ghana. So far, 11 students have graduated.
- Procured, installed and commissioned teaching and research facilities at Moi University;
- Developed a new curriculum for MSc in Sustainable Energy & Energy Access and review ongoing MSc and PhD programs to support training needs;
- Internationally accredited 2 programs: PhD in Energy Studies and PhD in Textile and Material Engineering;
- Upgraded ICT at PTRE Center for an enhanced learning environment;
- Hosted 1 virtual international conference where 8,139 persons followed through social media, Facebook and youtube and 500 through Ms. Teams platform.
- Organized 4 community outreach/extension activities to provide technical services;
- Offered 3 Re-tool workshops to faculty in areas relevant to the ACE II - PTRE thematic areas, curriculum delivery and supervision;
- Made 80 publications in high impact journals
- Facilitated 72 students/staff on exchange to other institutions and hosted those incoming on exchange to the Center;
- Initiated linkages with 8 industry and held 3 major meetings with the industrial linkage committee members;
- Undertaken 4 self-evaluations workshops jointly with the stakeholders;
- Organized 3 annual meeting with partners by the end of the project period;
- Developed and offered 4 short courses relevant to stakeholders needs;
- Initiated and supported 6 research project collaborations in the areas of Phytochemicals, Textile, Industrial Engineering and Renewable Energy;
- Participated successfully in the Partnership for skills in Applied Sciences, Engineering & Technology (PASET) regional benchmarking initiative to strengthen African Universities.
- Mobilized and attracted funds for sustainability amounting to over 2,634,231USD

These achievements were made possible through the support of our partners and collaborators. Hence, I wish to express my gratitude to the Regional Facilitating Unit: Inter-University Council for East Africa (IUCEA) for continuous facilitation. Besides the World Bank and IUCEA, I also acknowledge the important roles of our partners and supporters; Kenya Industrial Research and Development Institute (KIRDI), RIVATEX East Africa Limited (REAL), University of Lorraine (France), University of Gezira (Sudan), Regional Universities Forum for Capacity Building in Agriculture (RUFORUM), Busitema University (Uganda), Flexi Biogas International, Nocart, Association of Energy Professionals of East Africa (AEPEA), National University of Science and Technology (Zimbabwe), University of Gent (Belgium), University of Linkoping (Sweden), Kenya Bureau of Standards (KEBS), Elsevier, Ruparelia Consultants Ltd (RCL), Kenya Association of Manufacturers (KAM), Seeding Labs (USA) and SDG 12 cluster working group.

Let me also take this opportunity to congratulate our August 13th, 2021 graduating students. It is through your perseverance and dedication that you managed to make it. May our good Lord continue guiding you as you become our ambassadors outside there.

Thank you.

DR. ROSE RAMKAT
DEPUTY CENTER LEADER, ACEII-PTRE
CONGRATULATIONS TO ACEII – PTRE AUGUST 2021 GRADUANDS

The Center congratulates the following six students who are graduating in August 2021.

Master of Science in Analytical Chemistry; MERAB, Lilian Ndiege (Kenya), NASSAZI, Winfred (Uganda) and . MBABAZI, Immaculate (Uganda). Master of Science in Energy studies; FETENE, Elshaday Mulu (Ethiopia). Master of Science in Industrial Engineering; TIGALANA, Dan (Uganda) and ABDALLA and Elnour Ahmed Esmaeel (Sudan).

ACEII PTRE GRADUANDS’ VOX POP

What is your official name?
I am Abdalla Elnour Ahmed Esmaeel.

What programme did you pursue at ACEII PTRE Centre?
MSc. in Industrial Engineering.

What made you decide to embark on your Masters programme at ACEII - PTRE Centre?
It was my dream to enroll for Masters programme under ACEII PTRE Center because it was the perfect place for me. Engineering really appealed to me and specifically Industrial Engineering and that motivated me and inspired me to apply for a scholarship, through ACEII - PTRE Centre.

What was your research area?
My research area was on Ergonomic Design. My thesis was titled “An Innovative Ergonomic Design of Classroom Desktop-chair and Its Analysis Based on Anthropometric Measurements at Tertiary Institutions. Case Study: Uasin-Gishu County, Kenya”.

What contribution has your research made in the area of your study?
During my reading and writing the literature review, I realized that the classroom desktop-chairs are some of the most important facilities in the institutions, since students spend most of their time using them. Therefore, the classroom became the work environment for the students and effort has to be made to ensure that it is comfortable and can allow efficient learning. My research has provided a database for future research and it is potentially beneficial to all future student fraternity. This research, therefore, would hopefully be a reference point for scholars in the future within this field.

What was your experience at ACEII PTRE?
The Center allowed me to pursue many courses such as; English course at Moi University, a Research writing workshop in Nairobi and Training on power engineering in Rwanda. These pieces of trainings afforded me a huge opportunity to meet and collaborate with excellent people from different stages of the world. With these connections, therefore, I have learned a lot and published two (2) papers, one (1) scientific paper in the Journal of Innovative Systems Design and Engineering and one (1) paper in the International Conference of Phytochemistry, Textile and Renewable Energy.

What are you currently involved in after the study?
Currently, I am a lecture at University of Gezira, Sudan.

What is your advice to ACEII PTRE prospective applicants?
I strongly advise students to apply for the ACEII PTRE scholarship at Moi University as I did. Once admitted, they should work hard and consult with the ACEII PTRE Center if there are any problems they might have. They should consult with their supervisors since that can allow them to finalize their research on time as I did. Lastly, I wish to tell them thus: “Do not lose hope and do not forget God is always on your side. You have a gift so focus and think about your future and I wish you all the best in your future studies at the ACE II PTRE Center.

What is your official name?
My name is Winfred Nassazi.

What programme did you pursue at ACEII PTRE Centre?
I pursued Masters of Science in Analytical Chemistry.

What made you decide to embark on your Masters programme at ACEII - PTRE Centre?
On attainment of my first Degree and with vast experience in food quality control and analysis, I was able to join National Agricultural Research Labs as a lab quality controller with purposes of sampling and analyzing food samples to ensure the food on market is of good quality. While at the Laboratory, I gained useful skills in sample reception, storage, preparation and analysis and reporting of results. However, there was still a challenge in the use and mode of action of analytical equipment such as the Atomic Absorption Spectroscopy, UV/VIS Spectroscopy, GCMS, HPLC. There was also a challenge in the use of research methodologies such as data collection, analysis and reporting, which therefore encouraged me to apply for the Masters of Science in Analytical Chemistry at ACEII PTRE at Moi University to tap into the wealth of experience of staff at the University to enable me acquire the knowledge and skills needed to promote food quality and sustainability.

What was your research area?
My research area was Phytochemistry and Medicinal Chemistry.
What contribution has your research made in the area of your study?
My research data on cancer area has been able to: a) Provide data on efficacy of polyphenols in African basil (Ocimum gratissimum) and Rosemary plant (Rosmarinus officinalis) leaf extracts against human prostate, cervical and colorectal cancer cells. b) Provide toxicity data on efficacy of polyphenols of these plants against the human normal cells. c) Provide information as to which of O. gratissimum and R. officinalis in the Lamiaceae family is highly effective against human prostate, cervical and colorectal cancer cells and recommended on which to use under a given cancer condition.

What was your experience at ACEII PTRE?
The Center being located in Moi University, provides an environment conducive for students to study and read by availing stable internet, physical and online library, comfortable lecture rooms as well as efficient accommodation. The Center also provides opportunities for its students to develop their research skills by providing state-of-the-art equipment in the lab, organizing conferences, providing research funds as well as experienced lecturers and supervisors. All these have been of great help towards the accomplishment of my Masters degree at the Center. The Center recruits students from different regions and this has enabled me interact with different people of different cultural backgrounds and thus boosting my social capital.

What are you currently involved in after the study?
I am currently working as an Assistant Research Scientist at National Agricultural Research laboratories, Kampala-Uganda.

What is your advice to ACEII PTRE prospective applicants?
My advice to ACEII PTRE prospective applicants is to encourage them to apply to study at the Center and never give up because the Center is a good place to be, with welcoming staff and good lecturers hence they will beable to achieve their goals.

What made you decide to embark on your Masters programme at ACEII PTRE Centre?
The spark for the programme was initiated when I was working with Southern Range Nyanza Limited as a maintenance Supervisor, Processing Department. Most dyed fabrics reported color fastness faults. Furthermore, National Environmental Management Authority (NEMA) raised a concern of high dye effluent load. Additionally, the company had complaints pertaining enormous consumption of chemicals. Mercerization contributed to these three facets. Therefore, I was having a quest for new approach to curtail the stated concerns.

What was your research area?
Textile chemical processing (Mercerization). The research was titled “Optimization of mercerizing conditions for enhanced cotton fabric dye ability”.

What contribution has your research made in the area of your study?
The findings of this study have benefited textile processing industries considering that mercerization plays an important role in fabric quality and thus cost. This was ascertained when Southern Range Nyanza Limited applied the recommended global optimum points from the research and hoped to formalize the optimized mercerized process which yielded better color fastness properties coupled with a reduction of effluent load due to improved dye exhaustion. Therefore, the need to supply high quality finished fabrics at relatively low manufacturing costs with minimal effluent load justified the need for adjusting on some of the processing treatments without compromising on the quality.

What was your experience at ACEII PTRE?
ACEII - PTRE coupled with Moi University was the most suitable place for me to broaden my knowledge and to gain incredible life experiences, professional skills and competence. From an educational perspective, studying in Kenya at Moi University under ACEII-PTRE scholarship provided an excellent opportunity to progress with the focus on materials and chemical processing with respect to environment which is now my passion. Plunging myself within the new culture and country of good hospitality was one of the indispensable means of enriching my cultural understanding. Sincere gratitude towards the Centre for the support to participate in several research workshops which included; Natural Dyes for Textile held at numerous points including Eldoret (Moi University), Kitale (The Kitale National Polytechnic) and Kisumu (Ahero); Frugal innovations and subsistence entrepreneurship at Addis Ababa University (Ethiopia). Furthermore, ACE II-PTRE helped me make scientific publications listed below;


With this brief exposure under support from ACE II-PTRE, I will be able to continue to broaden my horizons, while fostering my journey of self-growth and discovery.

**What are you currently involved in after the study?**
Am currently working as a part-time lecturer, Department of Polymer, Textile and Industrial Engineering, Faculty of Engineering, Busitema University, Tororo, Uganda.

**What is your advice to ACEII PTRE prospective applicants?**
Dear prospective ACE-II PTRE applicants, this is my advice for you when the Centre picks you up either as MSc or PhD student;

(i) Think like a Fresher: As you enter the start of your postgraduate studies, your social situation will change. Even if you are continuing at the same university, you did your undergraduate in. Most likely, you will have to rebuild much of your social circle-in which the first few weeks will be key. Generally, taking the approach of a Fresher will most likely help you – that is, engage in as many activities as possible.

(ii) Use all of the resources available to you: Moi University provides postgraduate students with plenty of resources to help improve skills and develop learning. Don't let those opportunities go to waste.

(iii) Tackle imposter syndrome by accepting failure: Imposter syndrome is extremely common amongst academics of all disciplines. At the beginning of my second year, I experienced the worst imposter syndrome I had ever felt. I was tasked with setting up a pretty complex experiment and didn't really know where to start. After many failed attempts I started panicking. A few weeks later, however, it was done. I learned a lot from that experience, mostly response surface modeling and optimization. Now, whenever I take on a daunting task, I think back to that moment and feel a bit more confident that I will figure it out. But in reality, no matter how confident and skilled one can be, sometimes experiments fail. Be it a mistake, an accident or a simple stroke of bad luck, it happens. And the only way to overcome fear of failure is through exposure therapy.

(iv) Know that you will get there and don't lose hope: Stay motivated by accepting that whatever happens, you will be able to finish your degree. All postgraduate students experience obstacles and crises in their research or writing - it’s not the end of the world. When everything seems to go downhill, don't lose hope. I just started to work on my project and it gets desperate at times. Just give it time and in the meantime, embrace the opportunity that you have in your hands.

**What is your official name?**
My name is Fetene Mulu Elshaday.

**What programme did you pursue at ACEII PTRE Centre?**
I did MSc. Energy Studies

**What made you decide to embark on your Masters programme at ACEII PTRE Centre?**
The global energy supply problem is receiving great attention due to limited energy sources and environmental impacts of fossil fuels. I have a strong belief that this problem can be solved through research in alternative energy sources. Therefore, I was very interested to undertake a Masters program in Energy Studies. Furthermore, I have a lot of interest in doing research and helping the students to improve their education, which has led to my past success as an Assistant Lecture. I believed that the knowledge gained from the studies through the ACEII PTRE scholarship would help improve my education so that I can contribute to significantly promoting Africa's energy sustainability.

**What was your research area?**
Purification and upgrading of biogas using natural adsorbents which can improve the application of biogas.

**What contribution has your research made in the area of your study?**
Different scholars have done some work on biogas upgrading using modern technologies. However, these processes require high initial investment and consume high energy. These processes are therefore for application in small and medium biodigesters. The use of low-cost natural adsorbents is a better alternative way for such application. However, there is limited documented information on the usage of natural materials in the purification of biogas. Therefore, my research identified the knowledge voids by undertaking review paper on application of natural materials in purification of biogas. Furthermore, I investigated biogas upgrading using low-cost natural materials.

**What was your experience at ACEII PTRE?**
ACEII - PTRE at Moi University, Kenya, was the best place for me to study because of good facilities and hospitability. Furthermore, the programme gave me a good opportunity to learn more about Kenya and East African culture. From an educational perspective, the programme has given me the opportunity to improve my communication skills and to learn how to write research papers. As a result of good cooperation with supervisors and other ACE II-PTRE students, I was able to publish a review paper in the Journal of Renewable and Sustainable Energy Reviews. In addition, I have three papers under reviews in different journals. Furthermore, through the centre, I was able to present one paper in virtual international conference. Generally, I had very good experience at ACE II PTRE.
**What are you currently involved in after the study?**
I am an Assistant Lecturer in Arba Minch University, Ethiopia. I am also looking forward to furthering my studies by undertaking PhD training.

**What is your advice to ACEII PTRE prospective applicants?**
I would like to advise them to apply and study at ACE PTRE because the leadership of centre and the staff of the centre are the best. In addition, they supported us to improve our writing skill and also gave us a chance to participate in conferences. Therefore, I would like to advise applicants to take the golden opportunity and improve their education status.

ACEII – PTRE ACHIEVEMENTS

**PS Nabukwesi Hails Moi University's ACEII-PTRE for World Class Innovations, Research**

The Principal Secretary of State Department for University Education and Research, Ambassador Simon Nabukwesi, lauded Moi University's Africa Centre of Excellence in Phytochemicals, Textile and Renewable Energy (ACEII-PTRE) for its world class innovations and researches. Speaking during the tour of ACEII PTRE by the Kenya ACEII National Steering Committee, to assess its progress on Monday May 24, 2021, Amb. Nabukwesi said the Centre has placed Moi University and Kenya on regional and international visibility in terms of research and innovations. [https://excellencecenter.mu.ac.ke/index.php/2021/05/24/ps-nabukwesi-hails-moi-universitys-aceii-ptre-for-world-class-innovations-research/](https://excellencecenter.mu.ac.ke/index.php/2021/05/24/ps-nabukwesi-hails-moi-universitys-aceii-ptre-for-world-class-innovations-research/)

**PS Nabukwesi Launches ACE PTRE's Luxurious Scania Bus**

The Principal Secretary of State Department for University Education and Research, Ambassador Simon Nabukwesi, on Friday May 21, 2021, launched the state-of-the-art Scania bus procured by Moi University's Africa Centre of Excellence in Phytochemicals, Textile and Renewable Energy (ACEII-PTRE). The luxurious coach has eased transport for post graduate students and staff while conducting field trips and researches for their academic work. The “beast”, acquired on March 12, 2021, boats of unique features, making Moi University first among equals for possessing the top-of-the-range coach.

The bus crafted by Master Fabricators Limited is fitted with an air conditioner, fridge, high speed Wi-Fi, a digital clock, CCTV cameras, a ramp to enable the disabled to access the bus and a 2×2 seating configuration. The bus is a replica of the Scania touring and the interior is the design of the master rello. According to bus enthusiasts, Moi University is currently holding number one position for the most luxurious university bus in Kenya and probably in East Africa. [https://excellencecenter.mu.ac.ke/index.php/2021/06/08/ps-nabukwesi-launches-ace-ptres-luxurious-scania-bus/](https://excellencecenter.mu.ac.ke/index.php/2021/06/08/ps-nabukwesi-launches-ace-ptres-luxurious-scania-bus/)

**ACEII-PTRE Students Scoop Hindawi Article of the Year 2020 Award**

Timothy Omara and Winfred Nassazi co-authored the article titled: “Aflatoxins in Uganda: An Encyclopedic Review of the Etiology, Epidemiology, Detection, Quantification, Exposure Assessment, Reduction, and Control” together with other nine acquaintances, that attracted the attention of global publishers to consider it for recognition and award. The students are under ACEII PTRE scholarship at Moi University pursuing Master of Science degree in Analytical Chemistry. Nassazi is set to graduate this August 2021 while Omara is scheduled to graduate later in December. Omara, who is the corresponding author of the article, was elated for the milestone, noting that its impact is relevant in highlighting which food stuffs are most contaminated with aflatoxins and how to reduce the impact of the contamination.

**International Student Attributes Global Accolade to ACEII-PTRE**

Sheron Nonsikelelo Mpofu, a Zimbabwean national pursuing PhD in Materials and Textile Engineering at Moi University under ACEII PTRE Scholarship, showered the Centre with praises over her recent global accolade following her outstanding research article on fashion and textile. She hailed the exemplary guidance given to her by her supervisors, leading to her article being published in an internationally acclaimed journal, Fashion and Textile Springer.

Ms. Mpofu's article titled “Use of regression to study the effect of fabric parameters on the adhesion of 3D printed PLA polymer on woven fabrics” was the best paper under the category of Textile Science and Technology published by the Fashion and Textile journal. Fashion and Textiles is an international journal of

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interdisciplinary research. The Fashion and Textiles Best Paper Award recognizes outstanding papers that contribute to theoretical advancement of the discipline and facilitate collaborative studies with related disciplines and industry. The best two papers, one from physical sciences areas (Textile Science & Technology and Clothing Science and Technology) and the other from humanities/social sciences (Economics of Clothing & Textiles, Fashion Business, and Fashion Design & History), are selected annually from among the papers published in the journal during the previous year. The awards are announced and recognized on Fashion and Textiles homepage every October.

**Moi University Vice Chancellor, Prof. Isaac. S. Kosgey Commends ACEII-PTRE for Capacity Building**

Moi University Vice Chancellor Prof. Isaac Kosgey commended ACEII-PTRE Center for a superb job in developing its capacity.

“This project has built capacity for us in many ways. Now everyone is coming to benchmark with us and our systems have improved a lot,” said Prof. Kosgey. The Vice Chancellor was addressing the Centre's staff during its self-evaluation exercise at Merica Hotel in Nakuru on Friday June 25, 2021.

“I am happy to note that our systems have improved a lot and we are even learning more through challenges. We should leave that mentality of begging, but initiate projects that will make us self-sustainable. We are happy that a number of projects are coming up such as the Incubation Centre and the opportunity to go to the space,” added Prof. Kosgey.

_The Vice Chancellor noted that having international accreditation of programmes under the ACEII-PTRE project was a big milestone worth being celebrated, because it is a great honour to Moi University_

**ACEII-PTRE Holds Self-Evaluation Workshop**

The staff of Moi University's Africa Centre of Excellence in Phytochemicals, Textile and Renewable Energy (ACEII-PTRE) assembled at Merica Hotel, Nairobi from June 20 to 24, 2021 for a self-evaluation workshop aimed at assessing its performance and chart the way forward.

Led by the Centre Leader Prof. Ambrose Kiprop and the Deputy Centre Leader, Dr. Rose Ramkat, the dedicated members were divided into groups to deliberate on their performance reports ranging from challenges, opportunities and mitigation measures.

Prof. Kiprop hailed the members for their selfless service to the Centre and Moi University, noting that it is through their focused and professional work ethics that they have placed the Centre on the map among the best in Africa.

“I wish to thank you all for your commitment to work hard to deliver results sometimes even on short notice. Now we have bragging rights as the best ACEII Centre and University. I promise to offer you any support to ensure that we achieve our set targets,” said Prof. Kiprop.

Dr. Ramkat thanked the Almighty for granting the members good health and life to execute their mandates and attend the workshop. She briefed each team on their responsibilities and the expected outcome. The various teams presented their reports to Moi University Management Board (MUMB) on Friday June 25, 2021 in Nakuru.