



Issue 67

July – September 2024

# Engineering

A publication of the Engineering Institution of Zambia

## echo

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## Foreword from the Editor

Dear Readers,



**As we embark on another issue of the Engineering Institution of Zambia's (EIZ) Echo magazine, we are reminded of the vital role that engineering plays in shaping our nation's future. The pages that follow are a testament to the ingenuity, dedication, and resilience of our members and the broader engineering community in Zambia.**

In a rapidly evolving world, our commitment to innovation and sustainable practices has never been more critical. This magazine serves not only as a platform to celebrate our achievements but also as a forum for discussing the challenges we face and the opportunities that lie ahead. From infrastructure development to technological advancements, our engineering professionals are at the forefront, addressing the pressing needs of our society.

As we share stories of success, professional growth, and collaborative projects, let us also reflect on our responsibility to mentor the next generation of engineering professionals. We must inspire, educate, and empower young minds who will continue to drive progress in our field.

I encourage all readers to engage with the content, share your thoughts, and contribute to the ongoing dialogue within our institution. Together, we can foster a vibrant engineering community that not only meets the demands of today but also anticipates the challenges of tomorrow.

Thank you for your continued support and dedication to the EIZ. Let us move forward with a shared vision of excellence and innovation.

Warm regards,

*Eng. Prof. John Siame*

Chairperson of the EIZ publications and Editorial Committee



### On the Cover

EIZ to collaborate with Israel expertise in research and development.

### The Editorial Team

**Editor** Eng. Prof. John Siame, Eng. Grain Munakampe

**Sub -Editor** Ntalasha Yulu

**Writer** Abigail Hampande

**Writer** Cynthia C. Ngwengwe

**Layout and Graphic Designer** didasteez@gmail.com

### The Engineering Echo

Stand No 2374, Kelvin Siwale Road, Showgrounds, Lusaka, Zambia.

Tel: +(260) 211 255 161

email: pr@eiz.org.zm, membership@eiz.org.zm

Web: www.eiz.org.zm

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## Message from the Registrar and Chief Executive Officer

Dear Readers,

**When I look to the future, I see many opportunities for the Engineering Institution of Zambia, and I look forward to pushing boundaries to what is possible and meeting each and every ambitious target set, to make the Institution great. With the ongoing support of stakeholders like you, the Institution will continue driving positive change for the development of agile, dynamic expertise in the engineering sector and continue to play an increasingly profound role in turning the wheels of the economy.**

I feel proud to work with a dedicated team that has delivered tirelessly and overcome challenges with smiles on their faces and passion in their hearts, while implementing critical Institutional objectives to create a future-fit institution for all members.

Our goal is to stay focused on living our core values and actively connect with all members, our community, and all stakeholders.

We recognize the importance of the responsibility entrusted to us by our members and we ensure that we take special care to meet and exceed their expectations. In order to achieve this, we are always investing in our existing people, improving our culture and work environment through activities and initiatives. Retain our most important asset; our members, at the same time, offer a premium service through a listening ear.

The last quarter of the year has been an eventful one for the EIZ. It seems only fitting now, to announce some new initiatives, activities, and achievements in this edition of the newsletter.

We partnered with Israel in research and development, marking a significant milestone in our efforts to harness cutting-edge technologies for addressing local challenges such as the ongoing drought. This collaboration not only promises technological advancements but also the capacity building of our professionals,

allowing them to learn from one of the most innovative nations in the world.

EIZ has also continued to engage in critical infrastructure projects, such as the Lusaka-Ndola dual carriageway, emphasizing on our focus to ensuring the highest engineering standards and accountability in national projects.

In tackling environmental challenges, the collaborative efforts with Zambia National Service (ZNS) to improve Lusaka's drainage systems ahead of the rainy season are commendable. These efforts go beyond infrastructure, aiming to safeguard public health and mitigate recurring issues like cholera outbreaks.

The recognition of EIZ at the 96th Agricultural and Commercial Show, where we scooped two prestigious awards, further exemplifies our leadership in regulatory standards and innovation. Our commitment to promoting skills development, particularly through initiatives like the Junior Engineers, Technicians and Scientist (JETS) projects, ensures that we are shaping the future generation of innovators.

Our continued dialogue with key government stakeholders, including the Secretary to the Cabinet, reinforces the importance of a national policy on research and development. We aim to drive this agenda forward, ensuring that Zambia remains competitive and resilient in the face of current and future challenges.



While I am proud of how far we've come in meeting our objectives and pursuing our vision, there's still more work to do to make this Institution world class. I implore you to continue working with us and ensure the growth of the institution and its contribution to the engineering industry.

In just a few weeks, we are ending the year, and I would like to remind our esteemed members that the renewals for the 2025 Membership subscription and practicing licenses commenced on 1st October 2024 and will end on 31st December 2024.

We are therefore encouraging all our members to renew before the year ends, to avoid being inconvenienced in the new year.

We appreciate your continued commitment to the Institution and to our growth. We are confident we can make this mutually rewarding.

Enjoy your reading!

*Eng. David Kamungu*



# ARE YOU COVERED?

**RENEW YOUR MEMBERSHIP OR PRACTICING CERTIFICATE BY 31ST DECEMBER 2024, TO BE COVERED FOR FUNERAL INSURANCE**

Engineers, Technologists, Technicians, Crafts persons, Skilled people, Organizations and Units are entitled to funeral insurance if they pay before the deadline of each preceding year.

Visit [www.eiz.org.zm](http://www.eiz.org.zm) for more information

## EIZ to collaborate with Israel expertise in research & development

**The Engineering Institution of Zambia (EIZ) is taking a significant step towards advancing research and development by collaborating with Israel, a nation known for its groundbreaking innovations.**

The Engineering Institution representatives met with Israel's Ambassador to Zambia, Her Excellency Ms. Ofra Farhi, in October and discussed potential partnerships in technology exchange, capacity building, and training opportunities for Zambian engineering professionals.

EIZ President Eng. Wesley Kaluba emphasised the importance of research and development to address Zambia's current challenges, including the on-going drought.

"Your Excellency, we recognise Israel's remarkable achievements in research, and we believe that by enhancing the skills and expertise of our members, we can invest in research that will greatly benefit our nation," he said.

He said as a step forward, EIZ has established an engineering fund aimed at empowering members to develop engineering solutions through research and development.

He further said research and development will help reduce resource wastage, enhance capacity, and generate employment for the country.

And Ambassador Ofra Farhi expressed her appreciation for the opportunity to meet with EIZ and commended the institution for its forward-thinking approach to research and development.

She highlighted Israel's commitment to allocating substantial budgets for research



EIZ President, Isreal Ambassador and members of the EIZ Management team

and development, noting that this investment has been key to Israel's success in achieving technological breakthroughs.

"Our focus on innovation has not only solved our own national problems but has also created new opportunities for economic growth and job creation," Ambassador Farhi said.

She expressed confidence that through collaboration, Zambian engineering professionals could gain valuable insights and skills that will help drive similar advancements in Zambia.

Ambassador Farhi concluded by supporting the idea of a virtual conference between Israeli engineering firms and EIZ members. She said this initiative



Eng. Kaluba interacting with Isreal Ambassador

would serve as an excellent starting point for both parties to explore opportunities for collaboration.

"We believe this virtual conference will be a critical step in building a long-

lasting relationship, allowing engineering professionals from both countries to exchange ideas, share expertise, and work together on innovative solutions that will benefit not only Zambia but the entire region," she said.



## Engineering technical committee conducts audit on Lusaka-Ndola dual carriageway ...

*emphasises on engagement of an independent Engineer*

A member of the committee checking the quality of the soil during the tour

### The Engineering Technical Committee undertook an audit on the Lusaka-Ndola dual carriageway under construction, in September 2024.

**E**IZ President, Eng. Wesley Kaluba, commended the Road Development Agency (RDA) and the project Contractors for the progress made so far.

He however expressed concern over the delay in appointing an independent engineer to oversee and approve the works.

Eng. Kaluba said it was important to safeguard the interests of the financier and ensure that all progress made on the project conforms to the original designs.

“The engagement of an independent engineer is critical in ensuring that the project is executed to the highest standards and that any deviations from the design are promptly identified and corrected,” he said.

And Chairperson of the Engineering Technical Committee Eng. William Mulusa said the goal is to thoroughly understand



EIZ President, Eng. Wesley Kaluba far left with staff from RDA and members of the Engineering Technical Committee during the tour of the Lusaka - Ndola Dual Carriageway

the ongoing construction and ensure that the works are being executed according to the design and specifications.

He further said the involvement of EIZ in conducting these technical audits demonstrates the institution’s commitment in upholding engineering standards and ensuring the successful completion of critical national infrastructure projects.

Meanwhile RDA Chief Communications and Corporate Affairs Officer, Anthony Mulowa,

provided an update on the project’s overall progress, stating that the Lusaka-Ndola stretch is currently at 12.5% while, the Luanshya - Fisenge - Masangano road has seen significant advancements, with progress standing at over 70%.

He said RDA aims to open the Luanshya - Fisenge - Masangano road for traffic by 30th December 2024, ensuring improved connectivity and transport efficiency in the region.



EIZ, ZNS and Ministry of Defence inspecting the drainage system in Kanyama Constituency.

## EIZ, ZNS accompany ministry of Defence PS to inspect drainage systems ahead of rainy season

In a critical move to prevent flooding and address Lusaka’s recurring cholera outbreaks, Ministry of Defence Permanent Secretary, Mr. Norman Chipakupaku, led an inspection of key drainage projects in Kanyama constituency of Lusaka, accompanied by Engineering Institution of Zambia (EIZ) and Zambia National Service (ZNS).

During the inspection which took place in September 2024, Mr. Chipakupaku emphasised the urgency of completing the drainage system rehabilitation before the 2024/2025 rainy season.

“This is more than just infrastructure; it’s about protecting lives from preventable diseases like cholera. We’re aiming to

complete these projects within the next four months and we call on local authorities to manage plastic waste, which clogs drainage systems and worsens flooding,” he said.

He said the project was initiated two years ago under the directive of the President and it focuses on improving drainage infrastructure to ensure the health and safety of Lusaka

residents during the rainy season.

And Zambia National Service (ZNS) Commander, Lt. Gen. Eng. Maliti Solochi stressed the importance of completing the works before the rainy season to protect public health.

“We’ve completed the concrete lining for four kilometers, and the project is about 60% complete. Another drainage project, three kilometers long, is nearly 70% done,” he said.

EIZ President, Eng. Wesley Kaluba, commended the collaboration between ZNS, Ministries of Defense, and Local Government, calling it “exemplary.”

“Community engagement is crucial. We need MPs, councilors, retailers, and citizens to practice proper

waste disposal to prevent future drainage issues,” he said.

Eng. Kaluba assured the delegation that EIZ would continue providing oversight to ensure the project is completed on time and with high standards.

As Lusaka and the rest of the country prepare for another rainy season, the focus remains on finishing vital drainage systems to mitigate flooding and disease risks. Leadership from the ZNS, Ministry of Defense, and EIZ has been pivotal, but community involvement is essential.

With coordinated efforts, this initiative promises not only to improve infrastructure but also to foster responsible waste management, safeguarding the city’s health for the future.



ZNS team carrying out works on the drainage



EIZ President far right, presenting before the acting Secretary to Cabinet

## EIZ meets Secretary to the Cabinet for enhanced collaboration

**In a fruitful discussion with the Acting Secretary to the Cabinet Mr. Siazongo Siakalenge and other Permanent Secretaries, EIZ has acknowledged the urgent need for a national policy on Research and Development (R&D) to drive the growth and innovation of engineering in the country.**

**S**peaking during the meeting held in September 2024, EIZ President Eng. Wesley Kaluba said engineering cannot thrive without a solid foundation in research.

He stressed that corporates should be compelled to invest in R&D as a strategic approach to address Zambia’s current challenges, including the ongoing energy crisis.

He added that EIZ has established an Engineering Fund aimed at financing groundbreaking projects and solutions within the engineering sector.

“This fund will be pivotal in nurturing local talent and fostering innovations that can propel Zambia’s socio-economic development,” he said.

Eng. Kaluba also revealed that the EIZ has developed a comprehensive energy crisis



The EIZ team with acting Secretary to Cabinet Mr. Siazongo Siakalenge and other Permanent Secretaries

report, which is now ready for submission.

“The report presents short to medium-term strategies that are distinct from those outlined in the Integrated Resource Plan, which spans a 30-year period.

These strategies are critical to mitigating the immediate effects of the drought-induced energy crisis the country is currently facing,” he said.

And Mr. Siakalenge urged the EIZ to engage in focused meetings with the Permanent Secretary in charge of public policy to craft policies that would empower the institution to operate effectively and tackle the prevailing challenges.

He elaborated on government’s efforts to create a conducive environment for public-private collaboration through the Public-Private Dialogue Forum (PPDF).

“This platform enables the private sector to engage with the government on policy matters, fostering partnerships and synergies essential for accelerating Zambia’s socio-economic development,” he said.

He further mentioned that the presence of various Permanent Secretaries in the meeting was to ensure that there would be actionable follow-ups on the matters discussed.



Eng. Kennedy Musonda

## EIZ urges efficient procurement processes and accountability for sustainable infrastructure development

**The Engineering Institution of Zambia has called for efficient procurement processes and accountability for sustainable infrastructure development.**

Giving a statement at the 2025 Budget Symposium held at Mulungushi International Conference Center in October 2024., Vice President for Policy, Public Relations and National Development Eng. Kennedy Musonda emphasised the importance of efficient procurement processes, thorough budgeting, and adherence to project cash flow requirements for sustainable infrastructure development.

He said comprehensive budgeting and adequate funding are crucial for delivering quality projects within schedule and budget.

"Many public infrastructure projects have faced delays or abandonment due to lack of funding, which negatively impacts project delivery and increases costs," he said.

Eng. Musonda said the Institution conducted a comprehensive analysis of the project implementation landscape in 2021 specifically on public infrastructure and some of the findings presented are as follows:

- Inadequate design and supervision arrangements on most public infrastructure projects.

- Inadequate display of locals on subcontracted works under the 20% Local Subcontracting Policy, thereby affecting the overall project quality. not fully utilised, which impacts project quality and local capacity building.
- Widespread perceptions about diminished ethics and integrity among various players in public infrastructure development.
- Public infrastructure maintenance is not being prioritised.

To address these issues, the EIZ recommends stricter

enforcement of the Public Finance Management Act No. 1 of 2018, prioritising infrastructure maintenance in national budgets, and improving collaboration among key sectors such as telecommunications, water, and roads.

"By promoting competition in procurement and enforcing higher standards of accountability, we can ensure that Zambia's infrastructure projects are not only built to last but also contribute to inclusive growth and economic resilience," Eng. Musonda added.

EIZ has called on all stakeholders to prioritise quality, sustainability, and ethical practices in public infrastructure projects to secure long-term benefits for the Zambian economy.

## Plastic crushing to help solve Lusaka's waste problem

**In an on-going effort to combat the recurring drainage blockages caused by plastic waste in Lusaka, the Engineering Institution of Zambia (EIZ), Zambia National Service (ZNS), and Association of Integrated Solid Waste Management undertook a familiarisation tour of NEWTECH Crushing Plant, to understand plastic waste management.**

The visit to the facility which is run by small-scale entrepreneur Castro Shanobe, was a follow-up to the recent Kanyama drainage inspection which was undertaken by ZNS and EIZ.

The familiarisation tour held in October 2024 was led by Gen. Mulenga, Gen. Musonda and Gen. Mwakongole from ZNS, CEO of the Association of Integrated Solid Waste Management Mr. Mwanamwali and EIZ senior inspector Mr. Emmanuel Chanda.

The visit served as a platform for discussion collaborative efforts to mitigate the growing issue of plastic waste disposal, which often finds its way into drainage systems, causing widespread flooding and sanitation issues.

During the discussions, key strategies were explored to address the problem at its root. One proposed solution was the local manufacturing of plastic crushing machines, which would enable more widespread recycling efforts.

The team also proposed identifying specific hotspots in the city where crushers could be positioned to allow for easier and more efficient collection and processing of plastic waste.

The idea of outsourcing crusher operations to local enterprises or cooperatives was also suggested as a means of empowering communities and creating job opportunities.

EIZ was encouraged to collaborate with the Zambia Environmental Management Agency (ZEMA) to strengthen the enforcement of environmental regulations related to plastic waste, ensuring compliance with laws designed to protect the environment.

Additionally, the team emphasised the importance of community sensitisation. Educating the public about proper plastic waste disposal and the negative impacts



The team during the tour of the Newtech Crushing Plant



The Crushing machine

of indiscriminate dumping as a way of preventing blockages in the future.

Offering incentives for community members to collect and sell plastic waste for crushing was highlighted as a potential way to increase public participation in waste

management efforts, turning waste into a source of income for local residents.

The visit was a step forward in an effort to keep Lusaka's drainage systems clear and functional, while also addressing broader environmental concerns associated with plastic waste.



Eng. David Kamungu making a presentation before a parliamentary committee, looking on is Vice President, Policy, Public Relations and National Development Eng. Kennedy Musonda.

## Enhancing Zambia’s infrastructure: EIZ’s vision for sustainable development

**EIZ appeared before the Parliamentary Committee on transport, works, and supply in October, to analyse the 2025 Budget under the Ministry of Infrastructure, Housing, and Urban Development.**

In a delegation led by Eng. Kennedy Musonda, EIZ Vice President for Policy, Public Relations, and National Development as well as Registrar Eng. David Kamungu, EIZ proposed that investments in public infrastructure, housing development, renewable energy, and public-private partnerships should align with the Eighth National Development Plan (8NDP) and Vision 2030.

According to the Institution, the mentioned investments are essential for promoting sustainable development, enhancing social protection, and building resilience against economic and environmental challenges.

EIZ highlighted the importance of skills development, governance, operational efficiency, and sustainability to ensure that engineering professionals effectively contribute to these initiatives. Through collaboration with the Ministry of Infrastructure, EIZ aims to strengthen regulatory compliance, enhance technical

expertise, and drive innovation and sustainable growth in the sector. Other key highlights include:

### BUDGET ALLOCATION AND IMPACT

The proposed budget has decreased from K692 million in 2023 to K622 million in 2025—a significant 30% cut. This reduction threatens the Ministry’s ability to fulfill its mandates in housing and public infrastructure. EIZ advocates for reinstating the budget to K692 million, adjusted for inflation, to support crucial programmes.

### PUBLIC-PRIVATE PARTNERSHIPS (PPPS)

EIZ emphasises the necessity of robust public-private partnerships to address Zambia’s infrastructure deficits, particularly in road and housing development. Leveraging private sector expertise can promote sustainable and innovative solutions.

### FOCUS ON SUSTAINABILITY

EIZ is committed to advocating for increased budget allocations toward sustainable practices, including green infrastructure and environmentally friendly engineering projects that align with Zambia’s Green Growth Agenda.

### SKILLS DEVELOPMENT

With ZMW 150 million allocated for education and human capital development, EIZ underscores the importance of training programmes to enhance technical skills among engineers. Collaborative initiatives can equip professionals to effectively manage modern infrastructure projects.

### INVESTMENT IN RENEWABLE ENERGY

The budget encourages private sector participation in renewable energy, and EIZ plans to facilitate discussions and workshops to promote engineers’ involvement in these initiatives.

### QUALITY ASSURANCE IN ENGINEERING

EIZ stresses the need for projects to be managed by qualified engineers. To ensure high-quality outputs, it recommends that only local contractors led by certified engineers be awarded contracts.

### COMMUNITY ENGAGEMENT

Enhancing stakeholder engagement is crucial for transparency and inclusivity in infrastructure development. EIZ supports active dialogue between the government, local communities, and civil society to foster collaboration and trust.

As Zambia strives for sustainable growth and infrastructure development, EIZ’s recommendations can pave the way for a resilient economy and an improved quality of life for all citizens. The future of Zambia’s infrastructure relies on thoughtful investments, skilled professionals, and a commitment to sustainability.



# FREQUENTLY ASKED QUESTIONS

## RENEWALS OF 2025 MEMBERSHIP AND PRACTICING LICENCES

**Q** When does renewal of membership and practicing licences begin?

**A** Renewal for the 2025 membership and practicing licences start on 1st October 2024 to 31st December 2024.

**Q** Who must renew?

**A** Every engineering professional registered with the institution must renew their membership and practicing licences. Similarly, every engineering professional who is not registered with the institution must do so, to be allowed to practice.

**Q** What are the benefits of renewing on time?

**A**

- **No Work Interruptions:** Holding a valid membership and practicing license ensures you can continue your work without any disruptions.



**Read more  
on page 27**

## PHOTO FOCUS



EIZ Public Relations Manager Ntalasha M. Yulu interpreting the theme to the judges during the 96th Zambia Agricultural and Commercial Show.



Eng. Chokwadi Kaunda judging pupils at the last Jets National Science Fair.



EIZ President Eng. Wesley Kaluba chatting with Eng. Wendy Nambule at the Zambia Women in Engineering (ZWES) High tea in Lusaka.



EIZ conducts onsite registration at Mulungushi University



Female Engineering professionals pose with EIZ President and ZANACO CEO Ms. Mukwandi ChibesaKunda after their High tea.



EIZ Immediate Past President Eng. Abel Ng'andu receiving the prestigious Meritorious Service Award as the first Zambian engineer, from Federation of African Engineering Organisation at the last Africa Engineering Week exhibition in Angola.

## PHOTO FOCUS



Engineering Students from UNZA touring the Bangweulu Solar Plant at the Lusaka Multi Facility Economic Zone (MFEZ); taking them through is Eng. Manda Joel Mwale.



EIZ President Eng. Wesley Kaluba and immediate past president Eng. Abel Ng'andu meeting with Zambia Army Commander Lt. Gen. Sitali Dennis Alibuzwi.



The Zambia Women in Engineering Section touring the Trade Kings plant located within the Multi-Facility Zone in Lusaka.



Engineering Technical Committee Chairperson Eng. William Mulusa leads a technical audit at the ongoing construction of the Lusaka-Ndola dual carriageway.



Students touring the Iolanda Waterworks in Kafue in Commemoration of the Africa Engineering Week.



Members following proceedings during a forum in Kitwe.

## CTS, Lift Africa aid Kafue’s disabled

In a heartfelt gesture aimed at uplifting communities, the Craftsperson and Technician Section (CTS) made a contribution to the Kafue District Health Office, donating small carts and crutches to improve the lives of people living with disabilities in the area.



CTS Chairperson Tec. Kennedy Chipoma handing over the donated crutches to Kafue District Health Office, Clinical Care Officer Ms. Monde Wamunyima

The donation, held in September, is under the Institution’s Corporate Social Responsibility and part of a collaborative effort between CTS and Lift Africa Foundation.

CTS Chairperson and a representative of Lift Africa Foundation, Tec. Kennedy Chipoma, emphasised the shared commitment between the two organisations to drive social impact.

“Our partnership is built on a shared commitment to Corporate Social Responsibility and a desire to uplift marginalised communities, including people living with disabilities,” he said.

He highlighted the importance of coordinated and sustainable interventions that leverage local institutions and communities to create lasting changes.

And CTS Craftsperson Female Representative, Cra. Nchimunya Mulala, underscored the section’s dedication to using their skills and resources for the betterment of society.

“As a section dedicated to the development and empowerment of skilled professionals, we recognise that our work goes beyond technical achievements and innovations. It is equally about using our skills and resources to address the social challenges that our communities face,” she said.

Cra. Mulala expressed hope that the donated items would bring comfort and mobility to those in need, reinforcing the belief that everyone deserves the opportunity to live with dignity.

And receiving the donation on behalf of the Kafue District Health Office, Clinical Care Officer, Ms. Monde Wamunyima, who represented District Health Director Dr. Sydney Hamusonde,

expressed deep gratitude for the contribution.

“We have a lot of clients who require walking aids, and a school within the district for persons with disabilities that also requires assistance with movement. Your generous donation will go a long way in helping persons with special needs,” she said.

She assured the team that the donated items would reach the vulnerable individuals who need them most, including those at Twatasha School for the disabled.



EIZ Staff receiving the award

## EIZ scoops two awards at the show!

Scooping 2nd place in the Best Regulatory Authority category and 3rd place for Best Innovation Exhibit at the 2024 Agricultural and Commercial Show, the EIZ Secretariat put up an impressive display under the theme, “Creating a Competitive Future”.

Interpreting the theme to the Judges, Public Relations Manager Ntalasha Yulu explained EIZ’s critical role as a driver

## EIZ and TAZAMA strengthen strategic partnership for industry growth

**In a collaborative effort to address Zambia’s energy challenges and ensure high standards in operations, a delegation led by EIZ President Eng. Wesley Kaluba met TAZAMA Pipelines Limited Managing Director Eng. Davison Thawethe at their head office in Ndola last September.**

**E**ng. Kaluba was accompanied by Vice President Membership and Continuous Professional Development (MCPD), Eng. Edith Munungwe, Vice President Finance and Administration Eng. Chansa Musonda, CTS Chairperson Cra. Kennedy Chipoma and Registrar, Eng. David Kamungu.

Eng. Kaluba emphasised the importance of joint efforts between major stakeholders in the energy sector.



TAZAMA Pipelines Limited Managing Director Eng. Davison Thawethe (c) addressing the EIZ team

The discussions also underscored the importance of compliance at all levels, ensuring that both employees and Contractors at TAZAMA maintain high-quality standards.

The EIZ team called on TAZAMA to continue its support for EIZ members during institutional activities, particularly in offering internships, graduate

development programmes, and initiatives aimed at encouraging women’s participation in engineering.

In response, Eng. Thawethe shared insights into ongoing projects, including the construction of a new, higher-capacity pipeline.

“This new line, which is currently undergoing a

feasibility study, will aim to deliver 5 million tonnes of petroleum products per year, serving not just Zambia but the entire region. The project has garnered support from the governments of Zambia and Tanzania,” he said.

Eng. Thawethe also reaffirmed TAZAMA’s commitment to compliance, by ensuring that all personnel working on the

pipeline are registered and adequately trained.

Additionally, he highlighted TAZAMA’s dedication to supporting employees’ participation in CPD events as well as enhancing the skills of Crafts persons to meet industry demands.

of economic development and highlighted some of the initiatives the institution has taken to contribute to developing an energy mix for the country.

EIZ also showcased Skills Development through the Junior Engineers, Technicians and Scientist (JETS) projects.

The JETS projects aim to inspire and equip young minds with practical engineering skills, fostering innovation and

technical expertise among future engineers, technicians, and scientists.

Also exhibiting innovation at the Stand was the Hydro Master electricity generation unit, a solution poised to cushion the energy deficit for small, medium and large enterprises.

This innovative technology harnesses the power of water to generate electricity, offering a sustainable and reliable energy source. As Zambia faces ongoing

energy challenges, the Hydro Master represents a crucial step towards business continuity and operations.

EIZ’s dual awards at the show highlight EIZ’s exceptional role as both a regulatory authority and an innovation leader. By securing 2nd place in the Best Regulatory Authority category, EIZ reaffirms its commitment to maintaining the highest standards in engineering practice across the country.

Its dedication to regulatory excellence ensures a safe and efficient environment for development and progress.

The 3rd place award for Best Innovation Exhibits underscores EIZ’s relentless pursuit of cutting-edge solutions and the ability to develop technologies that address pressing national issues and drive sustainable development, thereby creating a competitive future.



Members of the disciplinary committee

## EIZ intensifies disciplinary action

**The Engineering Institution of Zambia (EIZ) has intensified the disciplinary process against professional misconduct to ensure the highest ethical standards within the engineering profession.**

Central to this effort is the Disciplinary Committee, established under the EIZ Act No. 17 of 2010. The Committee is currently chaired by Mr. Musa Mwenye, SC, with Mrs. Kasumpa Kabalata serving as Vice Chairperson. EIZ President Eng. Wesley Kaluba also plays a significant role as a member of the Committee.

The Disciplinary Committee ensures that ethical practices are adhered to, and any deviations are promptly addressed.

EIZ is mandated to ensure that engineering professionals engaged in various projects demonstrate the highest levels of professionalism by operating within established

guidelines, fostering safety, accountability, and high-quality work.

The institution safeguards ethical practices through effective regulation and constant monitoring of engineering standards and any member working against this effort is prosecuted in accordance with the law, through the Disciplinary Committee.

The institution is therefore calling upon members of the public to report any acts of professional misconduct to the office of the Registrar and Chief Executive Officer.

## EIZ to submit a list of engineering graduates to the army for recruitment consideration

**The Engineering Institution of Zambia (EIZ) will be submitting a list of top graduating engineering students to the army for recruitment consideration to ensure the retention of talent in the country.**

EIZ President Eng. Wesley Kaluba was speaking during a courtesy call on the army Commander, Lt. Gen. Sitali Alibuzwi, at the army Headquarters in September.

Eng. Kaluba acknowledged the army's crucial role in national development and emergency response.

He emphasised the importance of promoting engineering ideals within the military, recognising the army's swift and efficient response during crises.

Eng. Kaluba pledged to explore statutory support mechanisms for army engineering professionals in light of evolving technological landscapes.



Lt. Gen. Sitali Alibuzwi



EIZ Councilors during the courtesy call.

And Lt. Gen. Alibuzwi commended EIZ for its pivotal role in providing professional guidance across all fields of engineering, emphasising the institution’s impact on the nation and beyond.

He highlighted the significant contributions of the Zambia Army Corps of Engineers to infrastructure development.

He noted that many officers within the corps are proud members of EIZ, actively engaging in critical infrastructure developmental projects.

He cited several examples of the army’s engineering prowess, including the state-of-the-art Maina Soko Military Hospital, the construction of Zambia’s largest market in Ndola, Kapalala, and the development of Accrow bridges in Zambezi West.

Despite these contributions, Lt. Gen. Alibuzwi expressed concern over the limited recognition the Army’s engineering professionals receive.

He proposed the establishment of a dedicated position within EIZ for defense engineering professionals.

“This role would facilitate ongoing collaboration and provide oversight for military construction projects, thereby boosting the involvement and subscription of defense force engineering professionals in EIZ activities,” he said.

Meanwhile, Immediate Past President Eng. Abel Ng’andu encouraged the army to collaborate with private-sector engineering professionals through EIZ, fostering a cooperative relationship that benefits both sectors.

Registrar and CEO Eng. David Kamungu called for continued support for EIZ activities and announced plans to set up registration desks in all barracks.

“This initiative will capture and register all engineering professionals within the military, ensuring comprehensive representation,” he said.

The visit underscored the importance of continuous collaboration between EIZ and the Zambia Army, setting the stage for strengthened ties and enhanced professional engagement in future engineering endeavours.

## EIZ holds training on cost estimation for engineering projects

**To ensure engineering professionals remain at the forefront of technological advancements, industry standards, and best practices, the Engineering Institution of Zambia continues providing professional development for all member categories.**



Members following the proceedings of the workshop

The Institution held a training programme on cost estimation of engineering works and projects, at Mulungushi International Conference Centre in September.

The training was aimed at enhancing engineering skills, share best industry practices

and foster collaboration across various engineering fields.

Eng. Dr. Balimu Mwiya, who was the trainer, said understanding key concepts helps in developing accurate cost estimates, particularly in the implementation of Constituency Development Fund (CDF) projects.



Army Generals during the courtesy call



Lt. Gen. Alibuzwi interacting with EIZ President Eng. Wesley Kaluba, looking on is EIZ Immediate past President Eng. Abel Ng’andu and EIZ Registrar and CEO Eng. David Kamungu

# The Africa engineering week: Fostering engineering excellence in the African region

By Ntalasha Yulu

**The Africa Engineering Week is one of the most celebrated events in the engineering industry. This initiative celebrates and fosters engineering excellence in the African region and aims to educate the youth and the public about the awe-inspiring world of engineering and how engineering professionals are crucial players in addressing Africa's most pressing challenges.**



Technical Tour at Trade Kings in commemoration of the Africa Engineering Week

This year's commemoration took place from 9th to 13th September 2024 and brought African countries together to celebrate the tremendous achievements of engineering and ignite the spark of curiosity from the young ones that will shape the future of the dynamic African continent.

The Africa Engineering Week was initiated by the United Nations, Educational, Scientific and Cultural Organisations (UNESCO) in collaboration with the Federation of African Engineering Organisations (FAEO) and the World Federation of Engineering Organisations (WFEO), to increase the visibility of engineering and its role in sustainable development in Africa.

The initiative began with an aim of encouraging students to study engineering by supplementing science, technology, engineering and

mathematics (STEM) curriculum with practical engineering applications, and to encourage more African countries to participate, ensuring the sustainability of these efforts.

The Engineering Institution of Zambia (EIZ) has been taking an active and consistent lead role in promoting engineering in Zambia and stimulating the interests of the young people to take up the profession and continue contributing to improving the quality of life.

Young people have a big role in building back a better Zambia. The engineering industry is constantly evolving, and young people often carry great enthusiasm when it comes to innovation. By encouraging more young people to join the profession, Zambia can benefit from new ideas and fresh perspectives and approaches that can help drive progress.

It is true that new minds in engineering can open up potential to make meaningful contributions to societies locally and beyond.

Ensuring that future generations of engineering professionals and scientists will be able to design solutions for local and global challenges is critical. EIZ promotes engineering education from primary level all the way to tertiary through Career Talks, JETS and other programmes.

For continuity in the profession, EIZ encourages experienced engineering professionals to mentor those that are joining the field to excel in their performance and bring the much-needed innovation for the country.

The week-long event allowed EIZ to continue providing an ideal platform for exchange in the field of engineering in

Africa by promoting engineering innovations and solutions among current and future engineering professionals as well as networking and collaboration among professionals in the field.

Joining the rest of the continent to commemorate such an important event always has a profound impact on the engineering community and the broader society and fosters greater public awareness of the field.

It is a unique opportunity to foster knowledge exchange, cooperation, and collaboration among engineers, opens doors for partnerships which could further stimulate growth and innovation within the sector as well as collectively address the challenges being faced in the industry.

Renowned engineering professionals, scholars, and thought leaders will be delivering lectures and talks on topics relevant to engineering and innovation. These lectures delved into emerging trends, challenges, and opportunities in various engineering sectors, offering valuable insights and inspiration to both students and professionals.

*Continued on 20*



# Students urged to become solution-driven innovators

Eng. Prof. Clive Chirwa

**The next generation of engineering professionals has been urged to rise above traditional academic paths and embrace a solution-driven mindset.**

In a public lecture titled “Be That Engineer of Impact Amidst Zambia’s Self-Inflicted Challenges”, students were challenged to break away from the status quo and play a transformative role in addressing national issues.

The lecture, delivered by Eng. Prof. Clive Chirwa at the University of Zambia in September, highlighted the crucial message that academic qualifications alone are not enough.

Pro. Chirwa encouraged students to cultivate analytical minds capable of evaluating and solving Zambia’s unique challenges.

A key message throughout the lecture was the importance of developing local, sustainable solutions.

Prof. Chirwa said Zambia’s future depends on engineering professionals who can innovate

using available resources and adapt technologies to the local context.

He stressed that the ability to identify and capitalise on national niches would not only lead to entrepreneurship but also economic development.

He further encouraged students to build reputable careers as ethical employers, contributing to job creation and fostering positive workplace environments.

Beyond that, they were reminded of their responsibility to future generations, with the call to become “knowledge charity boxes” by sharing their expertise and experiences to ensure continuity in innovation.

Speaking on behalf of the students, Lewis Joseph Mulenga expressed his gratitude to both EIZ and Professor Chirwa for the timely and inspiring lecture.



Students following the lecture



Prof. Chirwa giving the lecture

He said the session broadened their perspective on education, motivating them to think beyond the degree and to

become the knowledge and solutions bank that Zambia needs.

*Continued from 22*

During this week, EIZ arranged several technical tours across the country for young engineering professionals to gain insight and get exposure to the practical working environments of their field.

The knowledge gained, partnerships formed, and lessons learned during this event will inspire the next generation of engineering professionals, professionals in

general and encourage them to push boundaries, reimagine possibilities, and create a sustainable built environment for future generations.

“Code and Create” bootcamp launches at Namwala Secondary School

In celebration of Africa Engineering Week, the Engineering Institution of Zambia (EIZ) organised a transformative “Code and Create Bootcamp” at Namwala

Secondary School, last September.

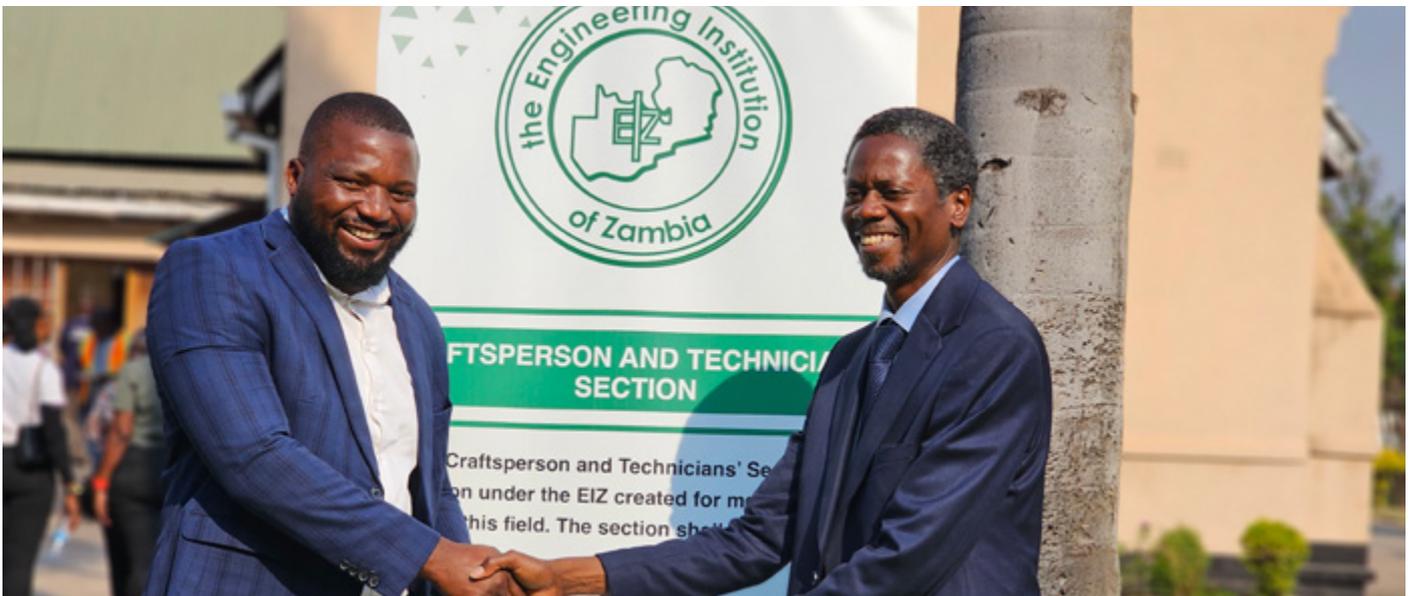
The event, aimed at equipping young learners with vital digital and engineering skills, brought together 25 pupils from both primary and secondary schools in the Namwala area.

The bootcamp, led by Technologist Retiana Phiri, focused on a range of crucial topics including coding, digital electronics, Computer-Aided

Design (CAD), 3D art, and basic engineering principles.

The programme was designed to inspire a new generation of innovators by exposing them to cutting-edge technology and engineering practices.

Participants engaged in hands-on sessions where they learned to code and explore 3D modelling, sparking their creativity and enhancing their problem-solving skills.



Ndola Branch Chairperson and ZESCO training centre principal pose for a photo after a success student chapter launch.

## Kudos to EIZ Ndola Branch for launching student chapter at ZESCO training centre

**The EIZ Ndola Branch launched a student chapter at the ZESCO Training Centre in commemoration of the Africa Engineering Week last September.**

This achievement has underscored the importance the Branch Executive has attached to increasing compliance and ensuring strict adherence to industry standards.

Ndola Branch Chairperson, Eng. Martin Kasonso encouraged students to pursue training in emerging fields, such as solar panel installation.

He stressed the need for qualifications to be certified and added to profiles to reflect updated skill sets.

And Vice Chairperson, Eng. Carol Sakala, emphasised the institution’s commitment to upholding high standards of work ethics and quality.

She told students that any reports of substandard

work would be thoroughly investigated to maintain the credibility and professionalism of the institution.

Meanwhile Engineer’s Representative, Ndola Branch, Eng. Mwenya Kabwe explained the various EIZ membership categories, including all engineering fields and outlined the online application procedure.

Eng. Kabwe further highlighted the necessity for members to regularly update their qualifications to remain aligned with industry demands.

The launch was wrapped up with EIZ Public Relations Manager Ntalasha Yulu outlining the benefits of being a member and explaining the institution’s mandate.

## Prof. Chirwa awards Chiti K1000, EIZ offers him a full scholarship

Renowned senior engineer Prof. Clive Chirwa, the Chief Executive Officer of AUVIV Limited, has taken a laudable step in recognising and nurturing young talent by awarding K1,000 to 17-year-old Barnabas Chiti, who made headlines months ago for innovating a Solar pumped hydro system.



Prof. Chirwa handing over a cheque to Barnabas Chiti

And the Engineering Institution of Zambia (EIZ) has offered Chiti a full scholarship to study engineering at a university of his choice.

In a ceremony held at the EIZ Head office last September, Prof. Chirwa praised Chiti for his ability to apply the latest engineering concepts to tackle local challenges, producing solutions that offer significant environmental and societal benefits.

“Chiti has demonstrated the most current thinking to solve local problems, and his project presents implementable engineering solutions with environmental and societal benefits. As AUVIV Limited, we thought it was fitting to honour him,” he said.

Meanwhile EIZ Registrar and CEO, Eng. David Kamungu said the scholarship is not just a reward for Chiti’s hard work and creativity but also a powerful message to young learners across the country

that their ideas and innovations are valued and can make a real difference.

“This gesture is not only a reward for Chiti’s hard work and creativity but also a signal to all young learners across the country that their ideas and innovations are valued and can make a real difference,” he said.

He said the EIZ attaches great importance to the promotion of STEM education, understanding that the future of the nation’s development lies in the hands of young engineers, scientists, and innovators.

And Chiti expressed his gratitude to Prof. Chirwa and EIZ, noting that their recognition and support would inspire him and his peers to continue pursuing their dreams.

A tearful Ms. Getrude Mwewa, Chiti’s mother, expressed

her heartfelt thanks to the institution and Prof. Chirwa, acknowledging the profound impact the scholarship will have on her son’s educational journey.

“Umwana uyu kumano yakwe amfisha ko namuno mu office. Iyi scholarshipu ikamwafwa ukusambilila. Natotela sana [This child has today made it possible for me to step into such an office] she said [This scholarship will enable my son to get a good education. Thank you very much.].

Chiti, a Grade 11 pupil from Kawambwa Provincial STEM School, last week made waves on social media and caught the attention of Prof. Chirwa and the EIZ with his innovative Solar Pumped Hydro System, presented at the Junior Engineers, Technicians, and Scientists (JETS) National Fair recently held in Lusaka.

## Engineering professionals agree to take bold steps beyond advisory roles to secure future generations

Engineering professionals on the Copperbelt gathered to exchange knowledge and explore innovative solutions to the challenges facing the nation at the recently held public discussion forum in Kitwe.

The event which took place on 29th August 2024 kick-started with a compelling presentation by Eng. Francis Mwale, on fostering entrepreneurial mindsets among engineering professionals.

And Eng. Michael Besa introduced the concept of hydro seeding technologies in mining and construction projects, highlighting its potential for sustainable soil erosion control.

Opening the event, EIZ

President, Eng. Wesley Kaluba, underscored the pivotal role of engineering professionals in tackling pressing issues such as the current energy crisis.

“Engineering professionals stand as the kingpin for resolving all engineering

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challenges the country is going through, such as the energy crisis,” he said.

He said while EIZ consistently provides expert advice on engineering matters, this advice often goes unheeded.

“To address this, as part of its seven-point plan, EIZ is advocating for amendments to its governing Act to strengthen the institution’s mandate. This

will ensure that our role extends beyond merely offering advice, empowering us as engineering professionals to take concrete steps in securing a sustainable future for generations to come,” he said.

“These changes aim to enhance the institution’s authority, enabling it to take decisive actions that extend beyond mere advisory roles, ensuring a secure and sustainable future for generations to come,” he added.



A member making a contribution during the forum

## Ndola Branch hosts gas production expo in commemoration of Africa Engineering Week

The EIZ Ndola Branch hosted an insightful expo at the ZESCO Training Centre, where engineering professionals and energy enthusiasts gathered to discuss innovative methods of gas production and utilisation.



EXPO at ZESCO training center in Ndola during the Africa Engineering Week Commemoration

In celebration of the Africa Engineering Week last September, Eng. Gladis Musaba Chama, Head of the Applied Science Section, elaborated on the intricate process of generating electricity using a gas reactor system. She explained that this system has the potential to produce approximately 25 kilowatts of electricity, though the output may vary depending on the density of the gas.

Eng. Chama outlined the gas production process, which involves using biomass to generate gas. The process starts when biomass is fed into the reactor, with the quantity varying based on the reactor’s load. When operating at full load, around 20 kilograms of biomass are added, while only 10 kilograms are required during periods of lower demand. The biomass feed is adjusted every 30 minutes through a control panel, ensuring precise control over the reactor’s performance.

Following the gas production, it undergoes a thorough cooling and cleaning process to remove unwanted particles. This initial filtration is aided by a cycle mechanism, with water used in the cleaning process to stabilise the gas at a temperature between 15 and 16 degrees Celsius.

Once cleaned, the gas is passed through a blower and fabric filters, preparing it for further testing. The gas concentration is then assessed to ensure it meets the required standards for electricity generation. If deemed of high quality, the gas is directed to a genset, where it is converted into electricity.

The heat produced by the genset is repurposed to drive the continuous addition of biomass into the reactor, making the process efficient and sustainable.

Temperature control is another critical aspect of the system.

The control panel not only adjusts the biomass feed but also regulates the reactor’s temperature, optimising the system’s overall efficiency. By maintaining the correct temperature and load settings, the system ensures the continuous production of electricity.

The expo concluded with a discussion on the potential applications of this gas production system in both industrial and local settings. The self-sustaining nature of the process, along with its ability to generate electricity from renewable resources like biomass, underscores its potential to contribute significantly to Zambia’s growing demand for clean, sustainable energy solutions.

## Kabwe Institute of Technology sets stage for a day of thought-provoking discussions

The atmosphere at the Kabwe Institute of Technology (KIT) was charged with excitement as the Kabwe Branch hosted a motivational and discussion forum in commemoration of Africa Engineering Week last September.

The event brought together students, lecturers, and seasoned professionals, all eager to discuss pressing topics that define the future of engineering in Africa.

The forum kicked off with a warm welcome, setting the

stage for a day of thought-provoking discussions and inspiring stories.

The speakers, each with a wealth of experience, shared personal stories about how they had faced and overcame obstacles in their careers.



Students participating during the motivational talk

Climate change, a hot topic in today's world, took center stage as they discussed innovative ways engineering professionals can develop solutions to mitigate its effects.

The speakers emphasised that engineering is a dynamic field,

full of diverse opportunities and further encouraged the students to explore various sectors and not to shy away from venturing into unexplored territories.

## Ndola City Council Receives Donation of Cleaning Materials for City Cleanup

In a collective effort to maintain a cleaner and healthier city, the Engineering Institution of Zambia (Ndola Branch) donated much-needed cleaning materials to the Ndola City Council.

EIZ further joined the Council in a cleaning exercise at Chisokone Market.

The donation came as part of the Institution's commemoration of the Africa Engineering Week from 9<sup>th</sup> to 13 September 2024.

The Ndola City Council Director Public Health, Mr. Hubert Mwanza expressed gratitude for the support and emphasised the importance of the materials in keeping the city clean.

"Efforts will be made to distribute the materials to peripheral areas, ensuring that the entire city benefits from this generous contribution," he said.

EIZ Ndola Branch Vice Chairperson, Eng. Carol Sakala said the collaboration between the EIZ and Ndola City Council is a step forward in fostering a healthier and cleaner environment for all residents.



EIZ Ndola branch Vice Chairperson, Eng. Carol Sakala handing over cleaning materials to Ndola City Council Director Public Health, Mr. Hubert Mwanza



EIZ Secretariat, Ndola Council Representatives and Ndola branch executive members pose for a photo during a donation at Ndola City Council

## Maamba Branch carries out tree planting exercise

*...inspires learners at Airport primary school*

The EIZ Maamba Branch did not get left out in activities commemorating the Africa Engineering Week last September. The team carried out a tree-planting exercise at Airport Primary School and later engaged the learners in an inspiring Career Talk.



Members of the branch planting some trees

led by Chairperson Eng. Daukeya Kaponde, the event aimed to instill good habits and encourage patience among the pupils, urging them

to stay focused and resist peer pressure.

Engineering professionals took turns to share their experiences and insights, providing

inspiration and guidance to young learners.

The session not only provided valuable knowledge but also created a platform for

interaction between the pupils and the engineering community.

Environmental Engineer Daniel Fwamba, emphasised the importance of tree planting, highlighting the environmental impact and the disadvantages of deforestation.

Eng. Fwamba said that trees are vital components of the environment as they help to mitigate the effects of climate change.

He warned of severe consequences that cutting down of trees on a large scale brings, without adequate reforestation efforts.

## Biomedical engineering students undertake technical tour at Chifubu Level One hospital in Ndola

In celebration of Africa Engineering Week, the Engineering Institution of Zambia (EIZ) Biomedical Engineering Section conducted a technical tour at Chifubu Level One Hospital in Ndola, in September.

led by Chairperson of the Biomedical Engineering Section, Teg. Brian Mupeta, the tour provided students with a valuable opportunity to witness practical applications in the field.

Teg. Mupeta said the visit aimed to bridge the gap between academic learning and fieldwork, considering the

rapid advancements in medical technology.

“Participants had the chance to tour the hospital’s imaging department, which is equipped with state-of-the-art X-ray, CT, and ultrasound machines,” Eng. Mupeta said.

Another key highlight of the tour was a visit to the hospital’s oxygen generation plant.

And Technologist Precious Kawambale explained the plant’s operation, noting that it uses Pressure Swing Adsorption (PSA) technology to generate a continuous supply of oxygen.

“The plant meets the hospital’s oxygen requirements and also supports nearby clinics,” Teg. Kawambale noted.

The tour emphasised the importance of adapting education standards to align with the evolving needs of the healthcare sector.

EIZ remains committed to promoting initiatives like this to ensure that Zambian engineering students and professionals are well-prepared for their careers in biomedical engineering.

Q

**What are the benefits of renewing on time?**

A

- Compliance with EIZ Act No. 17 of 2010. You will be practicing engineering legally, ensuring you are not in violation of any regulations.
- Insurance Coverage: Being a paid-up member by 31st December 2024; you will be covered by the insurance provided by EIZ.
- Additional Benefits: Eligibility for employment, access to continuous professional development (CPD) programs, Benevolent Fund, Engineering Fund, voting, etc.

Q

**How do I renew?**

A

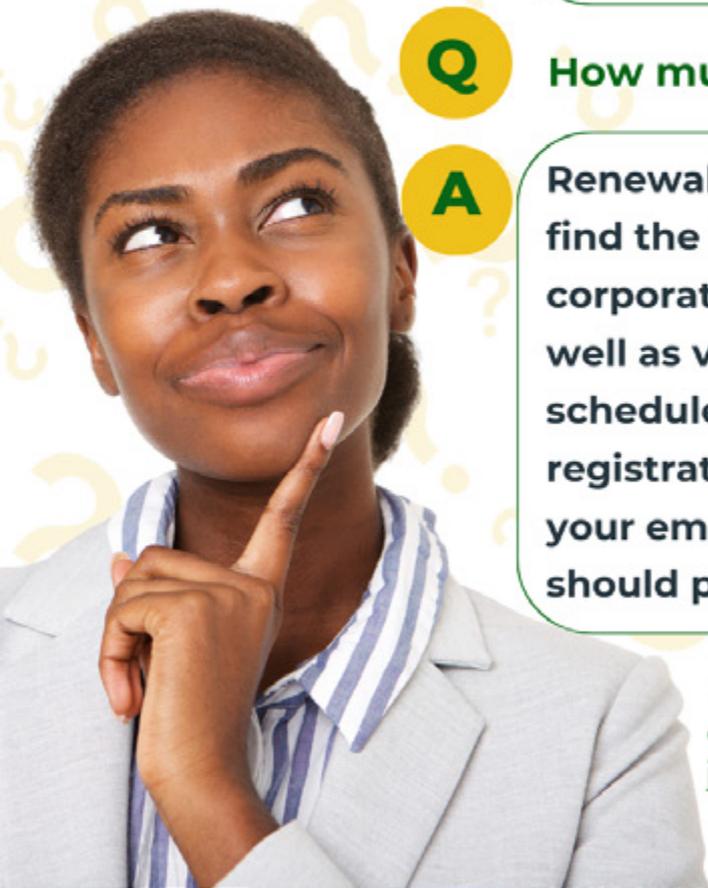
Simply visit the EIZ Website on [www.eiz.org.zm](http://www.eiz.org.zm) and go through the login portal. To register for the first time, you will be required to create an account. If you face any challenges, kindly call our Call Centre line on 3333.

Q

**How much do I have to pay for renewal?**

A

Renewal fees differ from class to class. You can find the fee schedule for both individual and corporate membership on the EIZ website, as well as various payment methods. The schedule also shows the fees for first time registration. A proforma invoice will be sent your email indicating the specific amount you should pay.



For more information on renewals, kindly email [membership@eiz.org.zm](mailto:membership@eiz.org.zm); [inspectorate@eiz.org.zm](mailto:inspectorate@eiz.org.zm). or call 3333.



## RENEWALS FOR 2025 EIZ MEMBERSHIP & PRACTICING LICENSES STARTED ON 1ST OCTOBER 2024 TO 31ST DECEMBER 2024!

Renew your EIZ membership and practicing license to be in good standing with the institution and avoid any inconveniences.

Visit [www.eiz.org.zm](http://www.eiz.org.zm) or come to our EIZ offices in Lusaka or Kitwe.

If you need assistance, please call **3333** or email [membership@eiz.org.zm](mailto:membership@eiz.org.zm).

Stay Compliant. Stay Professional

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