



Issue 63

Engineering

A publication of the Engineering Institution of Zambia

echo



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On the Cover

President Hakainde Hichilema says government is ready to work with the Engineering Institution of Zambia to achieve national development.

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Foreword from the Editor



Dear Readers,

By opening this wonderful 63rd edition of the Engineering Echo Newsletter, you are given an opportunity to get acquainted with the milestones that EIZ has achieved in the last few months, in accelerating the execution of our growth strategy while continuing to build on the strength of our brand—in increasing value to our members and stakeholders. In this edition there are unique stories that were collected from various EIZ activities covering the period between January and June 2023.

The story on government committing to work with EIZ takes the lead, urging engineering professionals to use their capability to support government by bringing innovations and solutions to the country's engineering problems.

Let me draw your attention to another interesting story on the Memorandum of Understanding that was signed between EIZ and the Ministry of Local government to increase access to registration services at

district level and enhance participation of local contractors in CDF projects.

These and many other interesting stories you will find in this edition.

This newsletter is a product of hard work from many parties, from collecting information, writing the articles to designing and finally, publishing it. I would like to

sincerely thank everyone who was involved in the making of this newsletter, and all the contributors.

I hope you find our newsletter an interesting read, informative and insightful.

Enjoy it!

Eng. Prof. John Siame

Chairperson of the EIZ publications and Editorial Committee

The Editorial Team



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Message from the Registrar and Chief Executive Officer



Dear Readers,

I am particularly pleased with the progress we have made in creating a future-fit Institution through the expansion of our core business and introduction of innovative solutions that address the evolving needs of our members and stakeholders.

As Secretariat, we aim to achieve a purpose-driven management which enables each employee to realise their own purpose and apply diligence and excellence in their execution of work to drive the company goals successfully.

To make this work, we are reforming ourselves in all areas, including work styles, human resource systems, corporate culture and service delivery. Through these efforts, we will be able to grow sustainably and increase value to our members and society.

The first half of the year 2023 marked a number of milestone achievements and

successes for the Engineering Institution of Zambia (EIZ), setting us on the path to achieving our long-term goals.

This period was the busiest and yet most exciting time for the EIZ. This is also the time that engineering professionals and other stakeholders came together for the 66th Annual General Meeting and Symposium.

EIZ was honoured to have the Vice President of the Republic of Zambia, Mrs. W. K. Mutale Nalumango, grace this important occasion and saw the participation of close to 1,000 people, including several exhibiting companies. During this period, we also held

elections for the Engineering Registration Board; and they were successful.

Prior to the conference, we also held elections in our various branches. The participation was average; and I would thus like to encourage members to be fully engaged in this so that we can increase representation from all corners of the country. This is one way to increase participation in decision-making and amplify the voices of the members, through this leadership. So please, step up and be involved.

Earlier this year, we joined the rest of the world in commemorating the World Engineering Day. We had a week full of activities running to this day, including a Leadership Conference for women.

I am delighted to further mention that EIZ signed a Memorandum of Understanding with the Ministry of Local Government and Housing to decentralise registration services to district level, so that local contractors can easily have access, and thus increase participation in the procurement process of the Constituency Development Fund (CDF) projects.

While I am proud of how far we've come in meeting our ambitious targets, there's still more work to do for us to achieve our goals. By continuing to work together and prioritising sustainability, we will do our part to ensure the growth of the Institution and increased contribution to the engineering industry.

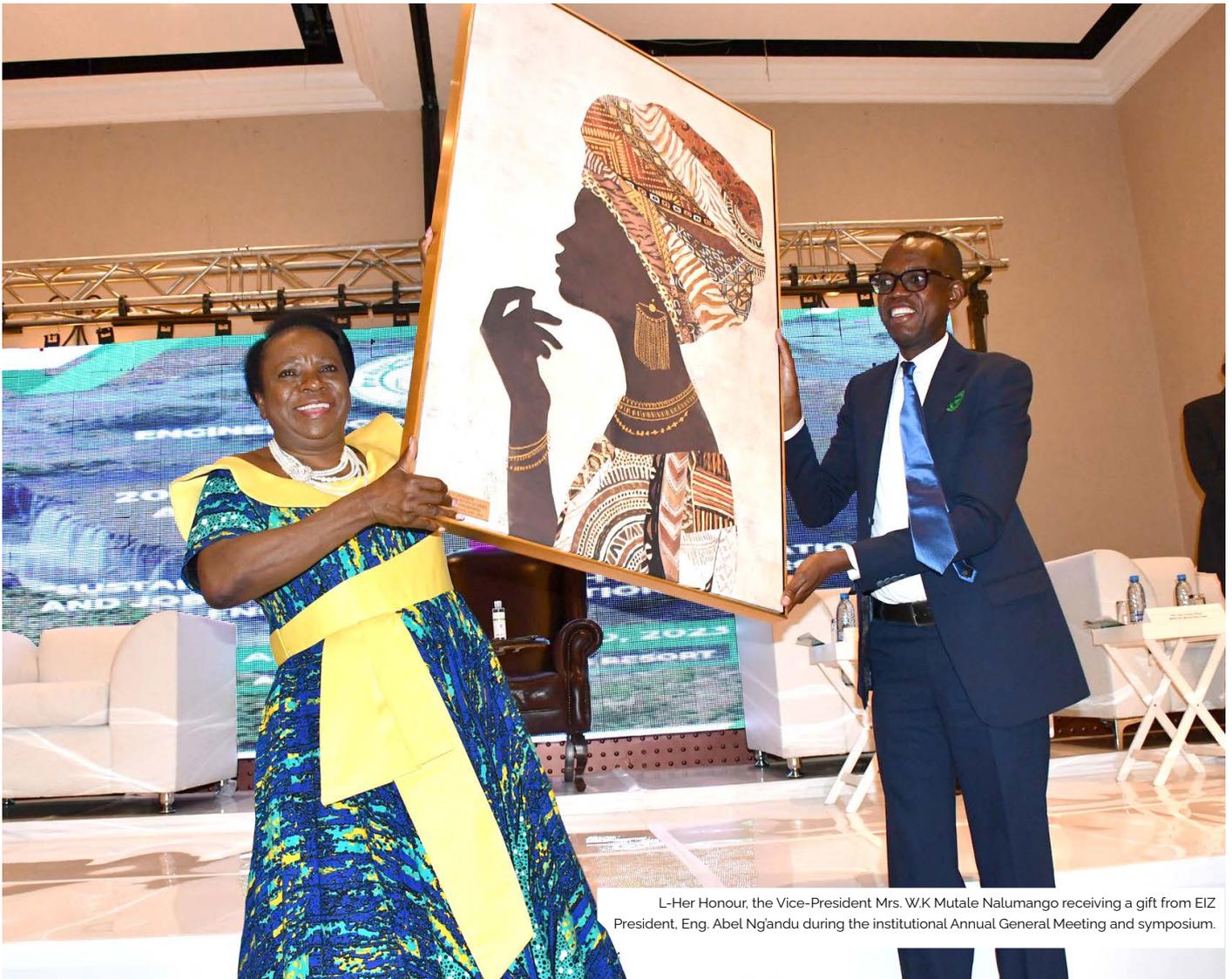
To achieve our mission and vision I implore you to bring to the table your much-needed voices and share your vast knowledge as we stay focused and committed to our goals and objectives on our journey to become world class.

Enjoy your reading!

Eng. David Kamungu

Government ready to work with EIZ

President Hakainde Hichilema has said government is ready to work with the Engineering Institution of Zambia (EIZ) to achieve national development.



L-Her Honour, the Vice-President Mrs. W.K Mutale Nalumango receiving a gift from EIZ President, Eng. Abel Ngandu during the institutional Annual General Meeting and symposium.

The Republican President said this in a speech read on his behalf by the Vice President Mrs. Mutale Nalumango during the official opening of the EIZ’s 66th Annual General Meeting and Symposium, held in Livingstone on 20th April 2023.

Mr. Hichilema said the theme for the conference, **“Sustainable economic transformation and job creation through home-grown engineering solutions”**, resonated well with government’s ambitious agenda of transforming the county’s economic outlook through home-grown

solutions that generate economic activity and create the much-needed jobs.

“The theme resonates well with what is currently happening and speaks to the times that we live in, where the impact of climate change such as food, drought, damage to infrastructure and crops can find solutions in engineering”, President Hichilema said.

He said engineering professionals must start using their capability to support government in dealing with the many challenges, whose solutions lie in the innovative use and application of engineering.

“

Engineering professionals must start using their capability to support government in dealing with the many challenges, whose solutions lie in the innovative use and application of engineering.

Mr Hakainde Hichilema
His Excellency, the Republican President of Zambia

Decentralised access to registration services to enhance CDF participation

The Ministry of Local Government and Rural Development signed a Memorandum of Understanding (MoU) with the Engineering Institution of Zambia (EIZ) and National Council for Construction (NCC) to increase access to registration services and enable local contractors successfully participate in the procurement process of the Constituency Development Fund (CDF) projects.

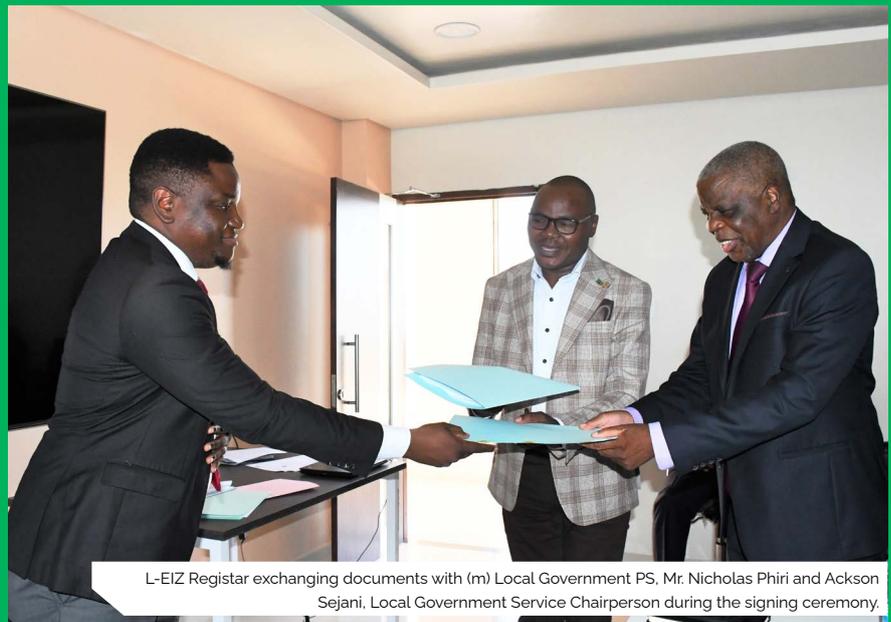
Permanent Secretary in the Ministry of Local Government Mr. Nicholas Phiri said the MoU would help unblock the bottleneck of accessibility to the EIZ services at district level.

He said the MoU will facilitate a collaborative, productive and beneficial working relationship between the parties for enhanced participation of local contractors in CDF projects.

Mr. Phiri said there have been serious concerns from local contractors for lack of presence in various districts across the country;

And EIZ Immediate Past President (IPP) Eng. Eugene Haazele said the Institution is looking forward to beginning the collaboration by offering technical Assistance in terms of registration and training of local authority staff.

He said it was a requirement for contractors to have a technical person in order to access the CDF funds.



L-EIZ Registrar exchanging documents with (m) Local Government PS, Mr. Nicholas Phiri and Ackson Sejani, Local Government Service Chairperson during the signing ceremony.

He added that the technical person can either be an engineer, a technologist, a technician or crafts person, as long as they hold a practicing licence from EIZ.

Eng. Haazele further said the collaboration will ensure compliance and

participation of competent contractors which will result into good output of works.

The IPP said EIZ has designed capacity building programmes for contractors and hopes to run them jointly with NCC.

He said government strongly believes in home-grown solutions hence engineering professionals must come up with ideas and solutions to the country's engineering problems.

"Increased economic productivity only happens where engineering has become part of society. One cannot talk of increased agriculture productivity, mining, energy production, sustainable construction or manufacturing without engineering. Therefore, as a country we must strengthen our engineering base; engineering

knowledge, application and innovation," he said.

The President challenged engineering professionals to find a permanent and lasting solution to the recurrent flooding in Lusaka and other areas around the country.

He further directed relevant line ministers to work with the EIZ to actualise the objective of building infrastructure that will be resilient to climate change.

"I implore you all to design and build infrastructure that will be resilient to climate

change and all-weather patterns," the President said.

And Minister of Infrastructure, Housing and Urban Development, Hon. Eng. Charles Milupi said government is ready to work with the engineering professionals in ensuring that all engineering works in the country are done by qualified and registered people.



Create an Engineer General's Office, EIZ appeals to Republican President

The Engineering Institution of Zambia (EIZ) has appealed to the Republican President, Hakainde Hichilema to consider creating an Engineer-General's Office and give the engineering professionals a stronger position in monitoring the practice and safeguarding the interests and future of the nation.

Speaking during the official opening of the 66th Annual General Meeting and Symposium in Livingstone, EIZ President Eng. Abel Ng'andu said the risk of poor decisions unfortunately increases when government does not recognise the need for technical expertise.

"The EIZ has made it a must lately to seek involvement in all engineering related matters of the country so that we can offer our technical expertise. But in as much as the Institution has become proactive, we may not be aware of some project plans by the government", Eng. Ng'andu said.

He lamented that EIZ is only recognised when there is an engineering failure, but never engaged at the planning stage.

Eng. Ng'andu said the Institution was however elated to have engineering professionals in cabinet giving engineering professionals an opportunity to be part of policy and decision-making at a high level.

He called on engineering professionals in cabinet to look into the plight of fellow professionals and lobby for employment of young engineers, participation, policies, legislation and everything that will promote the profession.

Proposed rural electrification bill to ensure active involvement of local authorities in implementation

The Engineering Institution of Zambia (EIZ) has said the proposed Rural Electrification Bill 2023 should have active involvement of the local authorities to ensure effective delivery.

Making a submission before the Parliamentary Committee on Energy in March 2023, EIZ Vice President Policy, Public Relations and National Development Eng. Kennedy Musonda said the Rural Electrification Authority (REA) should partner with the Ministry of Local Government or Science and Technology to embrace and prioritise all available opportunities to empower the beneficiaries.

He said rural energy programmes and policies solely designed at the national level without the active involvement of local beneficiaries have not resulted in measurable success and sustainability.

"The proposed Bill should thus endeavour to adopt an approach to link rural electrification programmes with rural development at planning, budgeting and implementation stages. The Bill should provide a provision for REA to work with councils to enhance rural development," Eng. Musonda said.

He said embracing a broader view of rural electrification (RE) needs to be adopted by various implementing agencies.

The EIZ Vice President added that the Bill should empower the Ministry of Energy through the Rural Electrification Authority to coordinate and establish new partnerships with councils so that developmental plans are integrated.

He said the empowerment would facilitate the Authority to tap into Constituency Development Fund (CDF) so that resources are utilised effectively and efficiently to deliver rural development.

Eng. Musonda said successful electrification programmes occur when beneficiaries are actively involved and empowered.

He further said one of the most efficient and effective roles for government in RE is to devote its resources to assessing the applicability of RE technologies in the rural sector through research and development.

He said the proposed Bill should endeavour to empower the Authority to effectively invest in Research and Development to enhance technology acceptance.

"There is an understanding that the current RE programme is being implemented in a disaggregated manner with many players acting in



L-Eng. Clement Silavwe seated next to Eng. Dr. Patrick Mubanga during the parliamentary submission.

overlapping and insufficiently coordinated roles. The re-thinking would entail re-ordering the way the sector is planned and implemented to enhance coordination and accountability,” he said.

Eng. Musonda said REA should be reconstituted to ensure better coordination to enhance rural electrification planning and implementation of activities undertaken by various NGOs and Government Ministries.

He said the current RE programme is complex and not disposed to adequate planning and coordination of resources and is prone to an indefinite provision of subsidies and long-term programme sustainability is a must if the subsidy support is expected to reduce.

He said there is need to plan for a path to self-sustaining viability by adopting the technical standards and materials specifications for RE distribution, construction and promoting productive use of electricity.

He went on to say that the new Bill should include legislation to govern the development of renewable energy sources in Zambia.



Eng. Kennedy Musonda

Eng. Musonda further said the new Bill should encourage fostering of new strategic partnership with Institutions such as ZamStats, various Government Ministries and agencies such as the National Remote Sensing Centre, to mention a few.

“The Rural Electrification Act No. 2003 (RE Act No 2003) while well-conceived may no longer effectively address the changing circumstances in the sector. Therefore, responding to different development needs will require a new Act that will build on the lessons learnt,” he said.

He said responding to the new developmental needs, the new Bill will provide an opportunity for REA to expand its function and improve on its mandate of increasing access to electricity in the rural areas of Zambia and contribute to improved productivity and quality of life for the rural population.

Government to collaborate with EIZ at every stage of project implementation

Energy Minister Eng. Peter Kapala has said government is committed to ensuring that the Engineering Institution of Zambia (EIZ) is engaged at every stage of project implementation, to obtain the much-needed guidance.

And Eng. Kapala has warned employers against engaging engineering professionals who have no practicing licences.

Speaking at the official opening of the 2023 Northern Region Annual General Meeting (NRAGM) held in Ndola, Eng. Kapala said engineering professionals have an incredibly important role to play in the whole of life asset considerations, identifying and addressing project risks early in the planning stage.

“As government, we are aware that the involvement of engineering professionals in long-term planning also helps in establishing a pipeline of well-conceived investments that deliver the best outcomes for infrastructure users,” Eng. Kapala said.

He said he was aware of the ‘cry’ by the EIZ to be part of every planning and decision-making process concerning engineering-related matters.

“Indeed, engineers need to be involved in deciding what solution to commission and not just how to deliver it,” he added.

“If the public service doesn’t have enough engineering expertise at the right levels, the government can’t act as an informed buyer of engineering-heavy projects, leading to second-rate solutions and potential cost blow-outs.

“That is why His Excellency the Republican President, Mr. Hakainde Hichilema is emphasising that EIZ works in close collaboration with the government at every stage to offer advice and guidance on project implementation.”

The energy minister also called upon the EIZ to ensure that experts are engaged to monitor the works for the Lusaka-Ndola dual carriage way as well as other energy projects, so that the country can get real value from them.

And Eng. Kapala said government is committed to ensuring that all professionals are compliant and are in good standing with the Institution.

“Compliance enables the Institution to provide quality assurance in safeguarding the confidence of the labour market and procuring entities of engineering works. There should never be a compromise on this.

“Let me also urge all engineering professionals to be ethical and professional in all your works; keeping in mind that you are representing EIZ in your actions. What you do out there highly reflects on the Institution,” he added.

“I must urge EIZ not to hesitate to bring erring members to book so that examples are set that the law does not favour anyone. Professional misconduct is a serious thing that impacts very negatively on people’s lives.”

Women to participate in the construction of the Lusaka Ndola dual carriageway

The Zambia Women in Engineering Section (ZWES) Chairperson, Eng. Ennie Muchelemba has called on women in engineering to take up leadership roles and participate in the construction of the Lusaka-Ndola Dual Carriageway recently signed by government and Macro Oceans Investment Consortium.

She was speaking during the celebration of International Women’s Day which fell on 8th March 2023.

Eng. Muchelemba said female engineering professionals should be involved at all stages which include the design of the

project, construction, supervision, contract management, supervision of technical audits and maintenance.

She also appealed to Zambian media houses to feature women carrying out remarkable works in the engineering sector

who will not only serve as role models in the profession but will inspire the young girls to take up the engineering profession.

The ZWES Chairperson said registered female engineers in the country are working on different projects in different

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Hon. Eng. Peter Kapala.

organisations responsible for design, implementation and supervision of different projects.

Eng. Muchelemba further said she is elated at the introduction of girls' technical schools in the country and the increase in the participation of girls in engineering at tertiary level.

“The Introduction of girls in technical schools will empower women in defining and setting their own priorities as far as manpower development is concerned, thereby bridging the existing gaps between men and women. Moreover, when women participate in any development, they work together not as individuals but with a sense of community”, she added.



Eng. Ennie Muchelemba.

Photo Focus



EZ organising committee for the Southern region AGM



L-Vice President of Zambia Mrs. W.K. Nalumango handing over an award to Eng. Godwin Beene for his Outstanding Service to the Eng. Profession.



Fellows reciting the Cradle after being conferred at the just-ended 2023 Annual General Meeting.



EIZ members of staff after scooping 3rd place in the best Regulatory Service Award category at the just-ended Copperbelt Agricultural Mining Industrial Enterprise Expo, 2023.

EIZ Technical Tour to Lusaka's 10 Miles area to check the road rehabilitation works by EIZ. Leading the delegation was Eng. Lusungu Nyirenda, Chairperson for the Engineering Technical Committee.



Green Economy Minister Eng. Collins Nzovu arriving at the Southern Region Annual General Meeting accompanied by EIZ President Eng. Abel Ng'andu.





Members following the proceedings during the EIZ Northern Region 2023 Annual General Meeting.



Solwezi EIZ Branch Executives leap for joy after scooping Best Branch award at the 2023 Northern Region Annual General Meeting.



Craftsperson and Technicians showcase their projects alongside the 2023 Annual General Meeting at Avani, Livingstone.



(First 3 right) EIZ Vice-Presidents during the 2023 Annual General Meeting in Livingstone. Seated next are international delegates.



Participants following proceedings during the 2023 Zambia Women in Engineering Conference at Avani, Livingstone. In front is Eng. Dr. Chilala and Eng. Dr. Kaonda (blue suit).



EIZ Properties 2023 Annual General Meeting in Lusaka chaired by Eng. London Mwafulilwa (centre).

Engineers suggest ‘solution’ to seasonal floods

We need to have a proper Master Plan for the drainage system to overcome seasonal flooding, Engineering Institution of Zambia (EIZ) President Abel Ng’andu has said.



In an interview on the Zambia National Broadcasting Corporation, ZNBC’s Sunday Interview, Eng. Ng’andu said the EIZ has made a recommendation to the local

authorities to plan settlements, drainages and other construction works to avoid rainy season flooding.

“We have recommended to the authorities and stakeholders to have a stand-alone project with a supplementary budget on the drainage systems especially in urban areas. A study on its own”, Eng. Ng’andu said.

“We have given our expert advice, year in year out as floods occur. But the decision-makers are politicians and not engineers. It’s important for government and other

stakeholders to listen to professional advice”.

He bemoaned the voice of engineers not being heard whenever it is lent to the government.

He added that the Institution is only called upon when there is a failure, and not at the planning stage of projects.

The EIZ President further said infrastructure across the country needs to be upgraded to withstand the effects of climate change.

EIZ signs MOU with ZNBC

The Engineering Institution of Zambia has signed a Memorandum of Understanding (MoU) with Zambia National Broadcasting Corporation (ZNBC) to enhance communication to its members and other stakeholders.



L-EIZ Registrar with Acting ZNBC Director General Eng. Bright Nkaka during the signing ceremony.

The aim of the MOU is to increase visibility of the Institution through various television programmes as platforms to offer advice, guidance and expertise on engineering related matters.

Speaking during the signing ceremony held at ZNBC Head Office in Lusaka, EIZ Registrar and Chief Executive Officer Eng. David Kamungu said the engineering profession has grown over time and

hence the need for such partnerships to reach all the members and stakeholders as well as increase visibility.

Eng. Kamungu said the Institution will be able to communicate effectively to the all-critical stakeholders about its mandate and how it can influence a shared purpose to improve the economy and safeguard the future of the country.

“The Institution is doing so many tremendous things that may not be widely known, such as giving advice to the government on engineering related matters. We are constantly offering professional expertise and recommendations on national emergencies and on-going challenges being faced in the country such as load shedding, poor drainage systems and road networks,” Eng. Kamungu said.

And Acting ZNBC Director General Eng. Bright Nkaka said the national broadcaster is a strategic Institution to broadly highlight the services of EIZ.

Eng. Nkaka said ZNBC is already disseminating engineering innovations in the country

on various programmes.

He has since assured EIZ that ZNBC will be equal to the task in actualizing its corporate working relations with EIZ.



EIZ members march from Manda Hill to UNZA during the commemoration.

EIZ commemorates World Engineering Day

World Engineering Day is a day set aside by the United Nations Educational, Scientific and Cultural Organisation (UNESCO) to raise awareness on the role of engineering in modern life and sustainable development.

The day which falls on 4th March each year was held under the theme, “Engineering innovation for a more resilient world.”

Engineering Institutions around the world commemorated the day with various activities and the Engineering Institution of Zambia (EIZ) was not left out.

To kick off the commemoration, Minister of Infrastructure, Housing and Urban Development Hon. Eng. Charles Milupi officially launched the day on ZNBC TV.

The Institution lined up several activities which included a march past, career talks, webinars on topical issues of engineering, and a leadership training for the women as well as presentations on various media platforms.

And during this period, the EIZ President, Anel Ng’andu, met students from various Universities who joined the commemoration.

Eng. Ng’andu said the Institution needed the young people to come on board with new ideas and solutions on how the profession can solve problems such as climate change.

“We are leaving in a time where climate change has brought many devastating



Students from various universities pose with EIZ President Eng. Abel Ng’andu



Several students listening to the Motivational Talk

effects to many countries, therefore it is an urgent challenge and requires the biggest engineering transition”, Eng. Ng’andu said.

He urged the students to be innovative and share brilliant ideas in order to make historical breakthroughs.

Engineering professionals meet pupils for career talks

Several engineering professionals came together to meet pupils from various schools on the Copperbelt, as part of the World Engineering Day commemoration.

The team was led by Eng. Sydney Matamwandi, Eng. Misozi Masaniga and Eng. Joe Malisawa.

The pupils that participated were from Ndola Girls National Technical School, Chifubu Secondary School, Fatima Girls Secondary School, Kansenshi Secondary School, St. John's Convent School, Mukuba Secondary School, Wusakile Secondary School, Helen Kaunda Secondary School, Chikola Secondary School and Kabundi Secondary School.

The aim of the meeting was to provide information to pupils on various types of engineering and sections, so as to stimulate their interest to join the profession.

EIZ Past President Eng. Matamwandi encouraged the pupils to take up engineering as a career for them to help create innovations around the world.

And Eng. Masaniga said engineering gives people the ability to develop problem-solving skills to make the world a better place.

She encouraged girls to take up engineering as a profession to strengthen diversity in the industry, encourage different perspectives and refinement of ideas in driving innovation for the country.



Eng. Misozi Masaniga speaking to the pupils.



Pupil asking a question during the Career Talk.



Eng. Matamwandi speaking to pupils.



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Craftspersons and Technicians exhibit various innovations during the AGM

Craftspersons and Technicians exhibited various skills and innovations alongside the 2023 Engineering Institution of Zambia (EIZ) Annual General Meeting and symposium held at Avani Resort Hotel in Livingstone.

The aim of the competition was to help students to develop further key employability skills in effective team work, communication, problem-solving and time-management.

Learners also develop confidence and networking skills, which are useful in their future careers. Importantly, the skill extension opportunities that competitions provide help students to develop high-level technical skills through completing additional and stretching activities.

The Colleges that participated in the Electrical industry where from Northern



Eless Nzala from Lusaka Business training Centre Libes Exhibiting her Electrical Industrial Installation project during the 2023 symposium.

Technical College (NORTEC), Libes and St. Mawaggal, LVTC, Kitwe Vocational and Kitwe trades participated in Welding and Metal Fabrication, UNZA, CBU and Nortec participated Mechanical CAD, LBTC, Kabwe Trades and Lukashya Trades participated

in plumbing and Sheet Metal while Chipata Trades, Mwinilunga Trades and Kitwe Trades participated in Carpentry and Joinery.

Fellows Conferred during the 2023 Symposium in Livingstone

- | | | |
|---------------------------------|-----------------------------------|----------------------------------|
| 1. Eng. Aaron Mulinda | 13. Eng. Gerald Chizinga | 25. Eng. Dr. Oris Chansa |
| 2. Eng. Alpha Mwale | 14. Eng. Gift Moonga | 26. Eng. Prisca Mulenga Tente |
| 3. Eng. Atkins Mwangala Sitwala | 15. Eng. Israel Laiti Phiri | 27. Eng. Shadvin Kalombo |
| 4. Eng. Boyd Chisha Kanchela | 16. Eng. Joseph Mwiche Malisawa | 28. Eng. Titus Chongo Mwandemena |
| 5. Eng. Chanda Mulenga | 17. Eng. Joseph Nyirenda | 29. Eng. Victor Sichali |
| 6. Eng. Chembo Mutwale | 18. Eng. Kennedy Kanyinji | 30. Hon. Chipoka Mulenga |
| 7. Eng. Chiza Leonard Nyirenda | 19. Eng. Lastone Silomba | 31. Hon. Joe Kalusa |
| 8. Eng. Cuthbert Munankwenka | 20. Eng. Lifterly Ndaba | 32. Eng. Graham Chingambu |
| 9. Eng. Daniel Kapambwe | 21. Eng. Lloyd Lishandu Chinjenge | 33. Eng. Dr. Paul Chisale |
| 10. Eng. David Kamungu | 22. Eng. Manda Joel Mwale | 34. Eng. Edgar Muwowo |
| 11. Eng. Edmond Mkumba | 23. Eng. Maximo Mutemba | 35. Eng. Luckson Mumba |
| 12. Eng. Festo Mpuku Mpundu | 24. Eng. Nzwalo Sikaluzwe | |

EIZ 2023 branch

Election Results



The Engineering Institution of Zambia held its Branch elections in both the Northern and the Southern Regions which took place from the 13th to the 21st February 2023.

The Institution ushered in new executive members to spearhead the operations of these branches as follows:

Branch	Chairperson	Vice Chairperson	Engineers Rep	Technologist Rep	Technicians Rep	Craftperson's Rep
Lusaka	Annie Kalaluka	Prince Ngulube	Kabamba Cheembo	Charity Manjasseh Musukwa	Vacant	Vacant
Mufulira	Kenneth Mukosha	Mwiche Sinkala	Stephen Chewe	Fred Kunda	Mutambo Humphrey	Muzyamba Costern
Kafue	Telfer Ndumba	Gift Kalaba	Simon Mwape	Geofrey Bwalya	Timothy Mumba	Amos Mutwale
Kabwe	Nsofwa malunga	Anthony Chabala	Hamaimbo Beenzu	Labasi Munalula	Mazuba Mulinda	David Shamambo
Solwezi	Brian Chingobe	Mambo Malambo	Mwashi Soyala Bonnex	Chalikosa Chimba	Musonda Champo Brian	Justin Kayamba
Choma	Lvert Nkulanga	Lavender Malama	Wallace Shawa	Vwali Miyoba	Luka Banda	Vacant
Maamba	Paul Mulenga	Febby Bwalya Mbulo	Mulenga Musonda	Frank Mumba	Vitus Hikapamba	Emmanuel Chanda
Chipata	Yotam Mbewe	Michael Kambimbi	George mushauko		Moses Chirwa	Masiku Mwale
Livingstone	Peter Bwalya Lombe	Bwalya Mulombwa	Kalima Kalaluka	Jeysen Hamayuw	Patrick Maswikanic	Vacant
Luanshya	Teddy Silwimba	Chirwa Damaseck	Gabriel Tambwe	Chisanga Kasonde	Brian Mumbo	Dominic Msoni
Ndola	Martin Kasonso	Caroline Sakala	Mwenya Kabwe	Kachepa Teliya	Vacant	Raymond Musinkanya
Kalumbila	Zangah Siluonde	Tracy Chileshe	Lindani Ngambi	Musongo Keegan	Sontwa S Mangala	Chikasi Peter
Mazabuka	Chiboni Walusungu	Esau Phiri	Dominic Kabaso	Kondwani Mwafulirwa	Kombe Chola	Nyongani Nthele
Kitwe	Victor Chawinga	Chibwe Nkandu	Ishmael Mutale	Okell Mainza	Gayton Chabala	Sydney Mulandwa
Chililabombwe	Abiton Ngwira	Charles Chembe	Crycencia Mambwe Musonda	Vacant	Mathews Mwila	Anne Nalweya
Chingola	Osward Mukosha	Daudi Thomas	Emmanuel Kapesa	Mathews Mwelwa	Vacant	Vacant
Mansa	Richard Chisembe	Stanley Zulu	Malama Mushota	Augustine Nshindano	Vacant	Vacant
Kasama	Daniel Chitambala	Bertha Joseph banda	Pretter kanyanta Mumba	Mathews Mwambazi	Lawrence Simbao	Enock Silwamba
Mpika	Patrick Shangala	Vacant	Eric Mwinuka	Vacant	Euclid Mweemba	Jackson Mwape
Chinsali	Abraham Namangolwa	Joseph Mulenga	Abrahims Ndashe	Reuben Chikwanda	Misheck Mufumba	John Yamfwa
Siavonga	Samuel Mwindula	Kasongo	Bwalya mwila	Arnold Musonda	Vacant	Lucius Chanda
Mongu	Eng. Iza Ngwira	Eng. Pamela Mwanza	Eng. Maina	Vacant	Vacant	Vacant
Itezhi Tezhi	Eng. Lewis Simfukwe	Eng. Davis	Eng. Tilinawo Mkandire	Wilson Phiri	Larry Linyantwe	John.M.Lubinda
Chirundu	Lucius Chanda	Best Keempe	Andrew Phiri	Ellial Wale	Brain Chinyama	Alberto Mapulanga
Nampundwe	Eng. George Sipanji	Vacant	Vacant	Vacant	Vacant	Vacant



EIZ Women donate to City of Hope Charity Home

As part of the 2023 International Women’s Day commemoration, EIZ women from the secretariat donated sanitary towels to the girls from City of Hope Charity Home in Lusaka.

Public Relations Manager Ntalasha Yulu said the donation was to assist the young girls overcome menstrual absenteeism and increase confidence as well as self-esteem.

She appealed to private Institutions, civil society and the government to join hands and contribute to the welfare of the young orphaned girls.

And City of Hope Principal, Sister Mary Jones expressed gratitude to the women for the noble gesture.

She said the number of girls at the home had decreased from 90 to 25 over the last 3 years because of limited resources to help them.



(Middle) Sister Mary Jones giving her vote of thanks. To her left is EIZ PR Manager Ntalasha Yulu and HR Manager Nanzele Hambulo.



EIZ ladies handing the accessories to the girls.

Women must not shun leadership positions – Ng'andu

Women in engineering have been challenged to take up positions of leadership in the Engineering Institution of Zambia (EIZ).

Speaking when he opened the Women in Leadership Training held in commemoration of the World Engineering Day at Radisson Blu Hotel in Lusaka held under the theme “Engineering innovation for a more resilient world”, EIZ President Eng. Abel Ng'andu said women must not shun leadership positions.

Eng. Ng'andu said the World Engineering Day is a good time to take stock of the progress women in engineering have made in leadership, and consider how the Institution can build numbers in the years to come.

He said the Engineering Institution of Zambia recognises the importance of women in engineering, that is why launched the Zambia Women in Engineering Section (ZWES) which has helped increase women participation in the Institution.

“As an Institution we are proud to mention that since the introduction of the section, we have seen an increase in the participation of women in leadership positions, with two women leading as vice presidents on the EIZ Council,” he said.

Eng. Ng'andu said women leaders bring with them a unique set of leadership strengths, enhancing the ability of the leadership team to navigate challenges.

“I want to encourage all our members to continue championing and prioritising leadership diversity, because greater diversity enables our companies and organisations to be more adaptive, and our society to be more progressive,” he said.

He further said good progress has so far been made and was certain that efforts to promote female leadership will build a strong foundation for the generations of women leaders to come.

And Chairperson of ZWES, Eng. Ennie Muchelembe said the training was the first of the many to come because the success and failure of an organisation lies in leadership.

She said ZWES decided to have a leadership training workshop during the commemoration of the World Engineering Day recognising that in the past, women have not been part of leadership.

“As a section we want to equip our women so that even as we take up these roles, we are not lost but live up to our expectation,” she said.

The training was packed with presentations on best board practices and strategic leadership, governance strategy, change management leadership, and ethical leadership and integrity.



Women having a discussion during the workshop.

Two technicians benefit from EIZ Benevolent Fund

...as it grants them k20,000 each

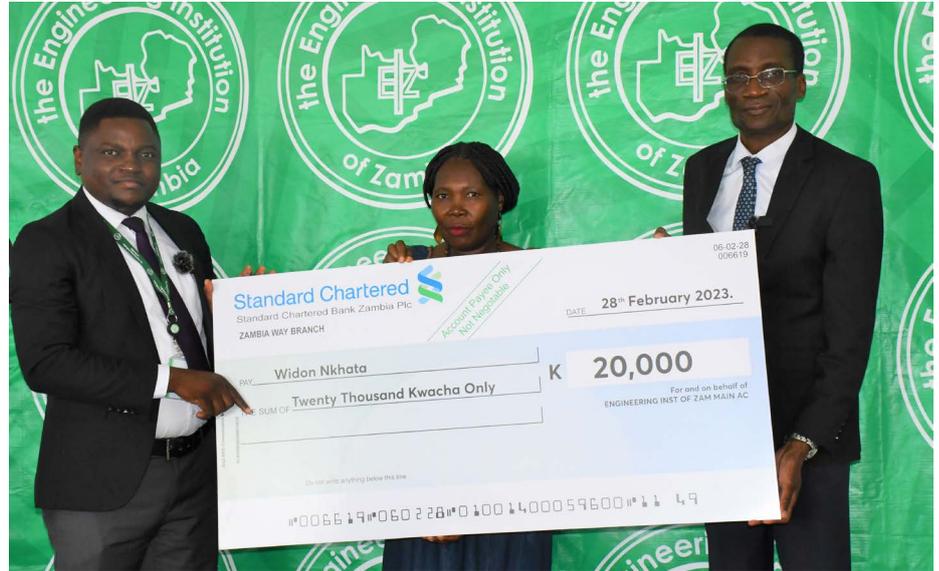
The Engineering Institution of Zambia (EIZ) has granted two Technicians K40,000 as part of its Corporate Social Responsibility under the Benevolent Fund.

This came to light during the award ceremony which was held on 28th February, 2023 at the EIZ Headquarters.

Presenting the awards to Tec. Charles Mulomba and Tec. Widon Nkhata, EIZ Past President and Benevolent Fund Committee Chairperson Eng. Eugene Haazele said the Fund was an initiative to help fully paid-up members facing financial difficulties or requiring practical assistance.

“We noted that most of our members struggle after retirement or illness or maybe after the death of a member, this is where this fund comes in handy to help them in time of need,” Eng Haazele said.

And EIZ Registrar and Chief Executive Officer Eng. David Kamungu explained that the



fund was readily available and further called on members to make applications through his office.

He said members of all classes should apply for this fund and enjoy the benefits of being a member of the Institution.

“All you need to do as a member is to ensure that you continue paying your membership



Eng. Cheelo.

ZWES commended for radical approach in promoting female engineering professionals

Permanent Secretary in the Ministry of Energy, Eng. Himba Cheelo, has encouraged women in engineering to make a significant dent on gender imbalance in engineering and build the country's capacity to deliver home-grown engineering professionals that support economic growth.

and access this fund when you are in need,” he said.

Meanwhile, Vice Chairperson Membership Continuous and Professional Development (MCPD) Eng. Sharon Musonda who is also the Vice Chairperson for the Benevolent Fund Committee said the Institution is able to give back to its members that are struggling in different areas of human endeavour.

The recipients of the awards thanked the Institution for coming to their aid in time of need.

Tec. Charles Mulomba encouraged other members to continue being members of the Institution and benefit from fund.

“Whoever thought this was a lie should now believe because we are beneficiaries of this fund today,” he said.

He said the fund will go a long way in helping him get back on his feet and revamp his business.

The EIZ Benevolent Fund provides advice, support and financial assistance to its past and present members who are in need.

This can be anything from being unable to work due to an accident, funeral, illness or having to accommodate special needs and disabilities.

Our new recruits



Eng. Kerman M. Kaite – Clerk of Works – Northern Region

Eng. Kaite holds a bachelor of technology in road construction and maintenance management from the University of Africa. He is a dedicated and hardworking Engineer with over ten years of experience in the construction industry ranging from the drilling and repair of boreholes, supervision of road works and construction of various building and non-building structures.

Before joining the Engineering Institution of Zambia as Clerk of Works for the Northern Region, Engineer Kaite worked for various local Authorities as Deputy Director of Works.



Kasuba Chipanta – Mwansa – Receptionist – Head Office

Ms. Mwansa is a hardworking and passionate individual with strong organizational and communication skills equipped for management of the Front office. With her Diploma in information technology, she is looking forward to strengthening the Front office systems to better serve the EIZ members.

Before joining EIZ she worked in the health sector as program officer promoting the U=U digital campaign for People Living with HIV under the Ministry of Health through Lusaka Provincial Health Office.

She was speaking during the Zambia Women in Engineering Section (ZWES) conference held on 20th April 2023 at Avani Victoria Falls Resort.

Eng. Cheelo commended ZWES for their radical approach towards promoting female engineering professionals and

numerous outreaches to young girls in schools as well as media programmes to stimulate interests of young girls.

“I’m happy to see more women joining the professional ranks to strengthen and grow the industry, generate innovation and improve performance,” Eng. Cheelo said.

And Engineering Institute of South Africa President, Eng. Refilwe Buthelezi, expressed happiness at the group of formidable female leaders in ZWES committed to bringing together a constellation of women from around the country to promote participation and inclusion.

“
I’m happy to see more women joining the professional ranks to strengthen and grow the industry, generate innovation and improve performance

Eng. Himba Cheelo
Permanent Secretary in the Ministry of Energy



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BENEVOLENT FUND FOR MEMBERS IN NEED



MONTHLY CONTINUOUS PROFESSIONAL DEVELOPMENT

Journal of the Engineering Institution of Zambia



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Examples of references:

Journals

Garry P and Phiri Z (1950) Cost implications of industrial waste discharges. The Journal of the Engineering Institution of Zambia, Vol. II (4), pp. 326-340.

Ng'andu A N and Simukanga S (2001) Stress analysis of mechanical components in mineral separation process plants at extremely high temperatures. Journal of Process Plants. Samuel and ST Publishing House, Lusaka, pp. 23-30.

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Rollson E C (1949) Metallurgy for Engineers. Second Edition, pp. 62-82, London, Edward Arnold.

Conference proceedings

Nkhuwa D C W (2000) Management of groundwater resources in Lusaka, Zambia, and expectations for the future, in Sililo, O. T. N. et al (Eds); Groundwater – Past Achievements and Future Challenges. Proc. XXX. Conf. Of the Ass. of Hydrogeol., pp. 993-998, Balkema, Rotterdam.

Reports

Chama, R. D. (1980) Interfacial structures in nickel-based transition joints after long term service. Report RD/M/N1131, Zambia Electricity Supply Corporation, Lusaka.

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