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		No. 1

The Engineering Institution of Zambia (EIZ) will be holding its Annual Conference from Thursday 3rd April 2025 to Saturday 5th April, 2025 at the Avani Victoria Falls Resort in Livingstone, Zambia. The Symposium theme is: *“Sustainable engineering solutions for climate change mitigation.”* In addition to the Livingstone Annual Conference, EIZ will also hold two Regional Conferences for the Northern and Southern Regions which will take place on 1st March 2025 for the Northern Region and 15th March 2025 for the Southern Region.

The Livingstone Conference will begin with the **Official Opening and the Sponsors’ Forum on Thursday 3rd April 2025**. The **Zambia Women in Engineering Section (ZWES) Conference** and the **Craftspersons and Technicians Section Conference** will be held parallel with the **EIZ Annual Symposium on Friday 4th April, 2025**. The Conference will end with the **EIZ Annual General Meeting** to be held on **Saturday 5th April 2025**.

1. CONCEPT NOTE

Engineering has been a fundamental part of human development and progress for centuries. From the ancient Egyptians building pyramids to the latest advancements in technology, engineering has played a vital role in shaping the world we live in. Engineering provides solutions to the problems humanity faces in daily life. Engineering professionals use their knowledge, skills, and creativity to design, build, and maintain systems, structures, and technologies that improve the quality of life. From providing clean water and electricity to developing life-saving medical devices, engineering makes a tangible impact on the world around us.

The 2025 Symposia address how the engineering profession can render itself to finding solutions to the effects of climate change, particularly the effects of drought which has negatively affected the agricultural and energy sectors in Zambia and the Southern African region in recent years. These Conferences will provide platforms to engineering researchers, educators and practitioners from both the academia and industry in the country and beyond to meet and share ideas arising from these problems; and to share ideas in achieving sustainable development through research-based and experiential industrial solutions.

Therefore, the Engineering Institution of Zambia is inviting authors and innovators to contribute to the 2025 EIZ Annual Conferences and Symposia by submitting articles that illustrate substantial contributions and proven experiences that describe significant advances or improvements in the areas under the following sub-themes:

- (a) Renewable Energy Systems
- (b) Green Buildings and Infrastructure
- (c) Water Resource Management
- (d) Climate-Resilient Urban Planning
- (e) Circular Economy and Waste Management
- (f) Carbon Sequestration and Emission Reduction
- (g) Climate Modelling and Predictive Analytics
- (h) Critical Minerals and EV Batteries and their Environmental Effects
- (i) The Role of Artificial Intelligence (AI) in Sustainable Engineering

These sub-themes aim to highlight various facets where engineering can play a crucial role in combating climate change and creating a sustainable future for all.

2. SUBMISSION GUIDLINES

Authors are invited to submit full papers for the Conference stating the category for their paper described under item (1) (by **Friday, 6th December, 2024** via email to the Conference Organising Committee (at these addresses (all of them): rex.kalangu@eiz.org.zm, gmmunakaampe@unza.zm and cynthia.chiyabu@eiz.org.zm). Submissions must be original and should not have been published previously or be under consideration for publication while being evaluated by the EIZ Publications and Editorial Committee.

The papers submitted should not exceed **eight (8) pages** in length inclusive of figures, tables, pictures, graphs, references, etc (**Note that papers exceeding 8 pages will be rejected**). The papers must be in Microsoft Word format, produced on A4 page in Times New Roman font type and 11 Point font size, single line spacing, and in a single column format. The margins should be 35 mm on the left and 25 mm on the other three sides of the page. For further guidance, authors are asked to refer to the *EIZ Symposium Full Paper Formatting Guidelines*, (please **click here**: [EIZ Symposium manuscript guidelines and template](#)) and the *Author Publication Guidelines* (please **click here**: [EIZ Author Publication Guidelines 2021.pdf \(eiz.org.zm\)](#)). These sets of guidelines must be strictly adhered to as any departure from or ignorance of the same will lead to papers being rejected. Submitted papers, in the given format, must contain the following sections as minimum requirements:

- (a) Title
- (b) Name of author(s) and institution(s) of affiliation with full postal address, e-mail address and phone number for the lead or corresponding author,
- (c) An abstract, not exceeding 150 words,
- (d) A minimum of five keywords (which MUST also appear in the abstract),
- (e) The main body of the paper,
- (f) Conclusions and recommendations, and
- (g) References (Harvard style; see “*References*” for guidance).

References

The Harvard system should be used. Citations in the text should be quoted in the following manner: Alexander (2000) or (Simate and Mtonga, 1997) or if there are more than two authors, James, *et al.* (1990). Note that “*et al*” is *italicised*. References should be collected at the end of the paper in alphabetical order by the first author’s surname. If references to the same author have the same year, they must be differentiated by using, for example, 1995a and 1995b, etc. References should be complete (examples are given below) and verified at source by the author(s). Inclusion of confidential and restricted material or internal reports not readily accessible to readers should be avoided, as should personal communication.

Examples of References:

Journals

Garry, P. and Phiri, Z. (1970). Cost implications of industrial waste discharges. *Journal of the Engineering Institution of Zambia*, Vol. 2, pp. 32-40.

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.

Where possible, journal abbreviations should be used. If the abbreviation is not known, the journal title should be given in full.

Books

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.

The Publications Committee adheres to a strict policy against plagiarism and any plagiarised content will not be accepted or entertained.

Papers to be presented during the conference will be published in a book of Conference Proceedings which shall be distributed to the participants in attendance.

3. IMPORTANT POINTS TO NOTE

Authors/presenters are advised to take note that the 2025 EIZ Conference will be a little different from the previous conferences. It will consist of the main conference in Livingstone and the two Regional Conferences, one in the Northern Region and another in the Southern Region. These changes will be implemented as follows:

- (a) A total of twenty (20) papers will be picked for the 2025 Conferences, and they will be distributed as follows:

- (i) Eight (8) of the papers will be presented at the two Regional Conferences (4 for the Northern Region (Kitwe) and 4 for the Southern Region (Lusaka)).
 - (ii) The remaining 12 papers will be presented at the Symposium in Livingstone.
- (b) Papers presented at the Regional Conferences will be published in a special issue of the *Journal of the Engineering Institution of Zambia (JEIZ)*. Consequently, these papers will not appear in the Livingstone Conference Proceedings. Authors of the eight (8) papers will be advised soon after the Reviewers' Camp in January 2025.
- (c) Authors/presenters are advised to be prepared to present their papers either at the Regional Conferences or at the Symposium in Livingstone as they will be notified by the Publications and Editorial Committee.


4. IMPORTANT DEADLINES

Authors must pay particular attention to the under listed important deadlines. There will be no extensions:

- (a) Friday, 6th December, 2024 – **Deadline** for Receipt of Full Papers (**6 weeks**).
- (b) Wednesday, 8th January, 2025 – Editorial Meeting – Appointment of Reviewers (**1 Day**).
- (c) Tuesday, 28th January, 2025 – Friday, 31st January, 2025 – Reviewers' Camp (**½ Week**).
- (d) Friday, 7th February, 2025 – **Deadline** of Sending for corrections (**1 week**).
- (e) From Saturday, 8th February, 2025 – Correction process by the authors (**3 weeks**).
- (f) Friday, 28th February, 2025 – Deadline for Receipt of corrected papers and sending them to Reviewers for verification of corrections (**3 weeks**).
- (g) From Sunday, 2nd March, 2025 to Saturday, 15th March, 2025 – Typesetting/Preparation of pdf eBook of Conference Proceedings and Conference Programme (**2 weeks**).
- (h) Sunday, 16th March, 2025 to Wednesday, 28th March, 2025 – Finalising/printing of Conference Programme (**1½ weeks**).
- (i) Thursday, 3rd April, 2025 – Official Opening and Sponsors' Forum (**1 Day**).
- (j) Friday, 4th April, 2025 – Zambia Women in Engineering Section (ZWES) Conference and Symposium – as parallel activities (**1 Day**).

Authors are advised to take serious note of these very tight deadlines.

Authors should further take note as they are hereby being advised that the Engineering Institution of Zambia (EIZ) does not sponsor presenters' travel and lodging for Conferences and Annual General Meetings (AGMs). They are, therefore, being advised to make adequate preparations to cover their expenses as they plan to attend and make their presentations.

ADDRESS FOR COMMUNICATION			
<p>The 2025 EIZ Conference and Symposium, Engineering Institution of Zambia, Stand No. 2374, Kelvin Siwale Road, Show Grounds, P. O. Box RW 51084, Lusaka, 10101, Zambia. Tel. : +260 21 125 5161. Email : rex.kalangu@eiz.org.zm and/or cynthia.chiyabu@eiz.org.zm</p>			
THE ENGINEERING INSTITUTION OF ZAMBIA			
	<p>EIZ HEADQUARTERS: Stand No. 2374, Kelvin Siwale Road, Show Grounds, P. O. Box 51084, LUSAKA 10101, Zambia. Tel : +260 21 125 6214. : +260 21 125 5161. Email : eiz@eiz.org.zm Website : www.eiz.org.zm</p>	<p>NORTHERN REGION: Engineers' House, 8 Kantanta Street, P. O. Box 23385, KITWE 10101, Zambia. Tel. : +260 21 223 0111. : +260 21 222 2608. Email : eiz@eiz.org.zm Website : www.eiz.org.zm</p>	<p>SOUTHERN REGION: Stand No. 2374, Kelvin Siwale Road, Show Grounds, P. O. Box 51084, LUSAKA 10101, Zambia. Tel.: +260 21 125 6214. Email : eiz@eiz.org.zm Website : www.eiz.org.zm</p>
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