



INSTITUTION OF ENGINEERS PNG

NEWSLETTER

JANUARY 2016

FROM THE CEO'S DESK

My Dear Members of the Institution, stakeholders and friends. Welcome to the January issue of the IEPNG Newsletter. I wish to take this issue to welcome you all to a new year since this is the first issue of the newsletter for the year 2016.

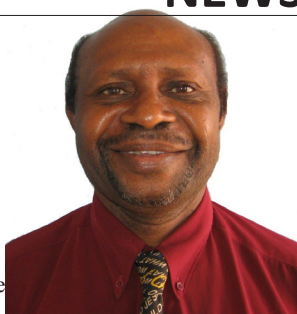
As I mentioned last year, the Newsletter will enable the Institution to keep in touch with its Members and our Stakeholders with news and articles about what is happening in PNG and abroad that is relevant and important to the engineering community. The Newsletter is a medium for the IEPNG Members and Stakeholders to share information on engineering projects and other relevant issues in PNG.

I therefore appeal to the Members and Stakeholders to become involved by providing to the Editorial team news stories and information about the projects you are working on, your views on the engineering issues affecting the nation, or anything you believe is important for the engineering fraternity to know about.

I would also like to invite all our stakeholders and organisations to partner with the Institution and support the monthly production and publication of the Newsletter by advertising your organisation.

The circulation based in PNG is over 2,000. It also goes to our sister organisation of the South Pacific Engineers Association covering Fiji, Samoa, Tonga, Vanuatu and Solomon Islands and the Federation of Institutions of Engineers Asia Pacific (FEIAP), whose member countries are all countries in Asia, including Nigeria in Africa.

I thank the Board and Staff for their support in reviving the newsletter. We hope it's production continues into the future.



PRESIDENT: UPHOLD ETHICAL PRACTICES

Dear Fellow Board Members and Members of the Engineers Fraternity,

I take this opportunity to thank you all, as members of the Institution of Engineer PNG, in your capacity as Engineers of this great and beautiful nation, Papua New Guinea, the land with abundant natural resources, for your humble contributions in development of this nation.

Your contributions in every little way has impacted the well-being of the people in the communities or societies you have served and obviously considered as very important.

You may be a lecturer imparting knowledge to the young generation of engineers, you may be a member of an investigation and design team in different fields of engineering to develop a project, you may be a member of the team of construction engineers of completed building or road project, a team member of project management and contract administration of a completed or ongoing infrastructure project or may be an advisor to political master on major project developments. I thank you all for your contributions in 2015.

The year 2015 had been plentiful in terms of tangible infrastructure development, however; it was marred by unethical practices in many of these major infrastructure projects with price escalation without any reasonable justification and excuse.

This has resulted in a public calls for investigations onto the leadership and management of these projects.

Such unethical practices would only cause unnecessary burden to the infrastructure sustainability as inflated cost to the infrastructure would make maintenance unaffordable.



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Groundbreaking: Work is launched on a city infrastructure project for the Pacific Games last year. Such building constructions were among the many infrastructure projects in Port Moresby last year as the country and the city experienced unprecedented growth.

IMPORTANT NOTICE TO IEPNG MEMBERS

As we began this New Year, we at the Institution of Engineers PNG look forward to be working with all members for a successful year. It is important that all Members renew their membership for this year. Members must provide IEPNG with your postal mail addresses or if you do not have one, please create an electronic mail (email) address for the institution to use to send out important messages.

Those who are not yet Members and wish to apply to become Members, here are the requirements:

- A passport size photo
- Payment of the Appropriate Non Refundable Application fee
- Certified copies of the qualification (degree) and transcript must read "this is the true copy of the original copy sighted" and sign by a PNG Registered Engineer or Notary/Commissioner of Oaths in PNG or Justice of Peace (overseas). Certified transcripts must be enclosed.
- *Certified copies of English Translation of the other Languages Qualification must be certified and provide.
- Certified copies of Certificate of Membership of Other Professional Institution and a confirmation letter confirming their current status of membership (eg. IEAust or IPENZ)
- Letter of Identification from Employer/ Organisation stating that

the applicant's position title, main responsibilities and the period of registration.

- Copy of Job Description
- Certified copies of CV of professional engineering work experience and these must be verified by the employer or supervisor. Certified copies of Curriculum Vitae detailing all engineers' experience (management, investigations, costing/calculations, design works/drawings, commissioning, construction, implementation, operation or production) since graduation. The CV must be detailed, comprehensive and in chronological order from graduating date.

Note:

- Degree holders – eligible for Member or Fellow
- Diploma and Certificate holders – eligible for Technician membership
- Other engineering related field – eligible for Companion membership

IEPNG would like to thank our partners, stakeholders and Members for the help and support given in 2015 and we look forward for a successful year 2016.

IEPNG PRESIDENT CALLS FOR ETHICAL PRACTICES

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All infrastructure projects in National Capital District have been over priced; doubled or triple the actual price of the works. Some have been poorly designed and sub-standard in nature with very high costs. Your Institution had taken a positive stand on these unethical practices and has partnered with certain Government authorities and law enforcing agencies in an attempt to address the issues surrounding these cost escalations.

As we journey into the waters of 2016 we now feel the ripples coming from the waves of the global economic down turn caused by the global decline in the commodity prices, especially in the mining, petroleum and gas sector, a major revenue earner for the Government of Papua New Guinea (GoPNG), coupled with the aftermath of unethical inflated prices of project expenditures in 2015.

There are indications from World Bank and Asian Development Bank economic briefings that 2016 would encounter rough waters of economic downturn and is expected to extend into 2017. This period is expected to be the toughest period in a decade.

Hence, the years ahead bring great challenges in the history of economic crisis. World leaders are assessing the global economic situation and had

been the talk of the day for the last few months. It will continue for some time. We in the Engineering fraternity, and the members of the Institute of Engineers of PNG, given our role as engineers in every place we have been placed, must embrace our ethical values and practice them without fear or favour.

It is important to know what Lee Kwan Yweu had said and I quote; "It is not what the Government can do for me but what I can do for the Government".

To uphold the ethics of engineering practices as stipulated in the IE PNG constitution is in fact good practices you can offer in the place you work to fight the war against inflated prices in infrastructure development projects.

My challenge for all engineers is to uphold the good ethical practices and perhaps introduce innovative ways to prevent corruption that is evident in the field we are operating in. May God with his endless riches bless you all with the gifts of wisdom, knowledge and understanding in wherever you are and in the decisions you make as an engineer.

Thank you.

President



Roadworks in Port Moresby last year.

ENGINEERING PROFESSION GOVERNED BY LAW

Non-compliance with the Professional Engineers Registration Act (Amended) 2007

By now you should be aware that under the Professional Engineers Registration Act (Amended) 2007, no individual can practise engineering within Papua New Guinea without registering with IEPNG. Failure to comply, the following penalties from the ACT will be imposed Registration, Qualification and Responsibility

Notification of Change of Address, Job Position, employment etc

a) Any Person registered under PERA who changes name or the location of his/her place of business or his/her postal address must within 21 days after the changes notify IEPNG in writing or by filling out a Change of Address form

b) A person who contravenes or fails to comply with subsection (a) is guilty of an offence

Penalty: A fine not exceeding K40.00

Regulation of the Practise of Engineering with in Papua New Guinea Employment of Registered Engineers

a) any persons, company, statutory body, government body or organization that undertakes or employs others to undertake professional engineering studies and works (includes design work, investigations and other works carried offshore, where the total project value is in excess of K200,00.00) shall employ registered engineers for the engineering management, design and implementation of these works

b) All drawings and documentation for the construction of works approved, must be approved and signed by a registered engineer

c) a person who fails to employ a registered engineer in accordance with the PERA Act is guilty of an offence

Penalty: A fine not exceeding K200, 00.00 or up to the value of the commission, fee, profit margin ect, whichever is greater

Unregistered Person Using Reserved Titles

Under the Professional Engineers Registration Act (Amended) 2007, no individual can practice engineering without registering with the Institution of Engineers PNG (IEPNG)

A person other than a registered engineer who uses any of the prescribed titles of abbreviation for the registered engineer of implies by any other name, style, title, addition or description, whether in itself or the circumstances in which it is used, that such person is a registered engineer, is guilty of an offence

Penalty: a fine not exceeding K5000.00

Unregistered Persons Signing Documents

A person who is unregistered, but who claims to be registered, or who signs engineering documents as though he/she is registered is guilty of an offence

Penalty: a fine not exceeding K5000.00

Employment of Unregistered Persons

Any persons, company, statutory body, government body or organization that employs an unregistered person as a registered engineer knowing him to be unregistered is guilty of an offence

Penalty: a fine not exceeding K10, 000.00

If you know or are aware of any persons, company, statutory body, government body or organization that have breached any of these PERA rules and regulations, please inform the IEPNG accordingly.



Contractors working on a civil construction work in Port Moresby. Even such minor engineering works must be certified by an engineer registered with IEPNG.

INSTITUTION OF ENGINEERS PNG INC TENTATIVE 7

Course names and events on the left column & the Months and Dates of courses and events in the right columns	January	Feb
Project Management (10 days)		1-1 PO
Auto Cad (2 days)		18- PO
Civil Cad (2 days)		
Project Contract Administration (1 day)		
Accounting for Non-Accountants (3 days)		24- PO
OHS & Workers Compensation (2 days)		
Quantity Estimation & Project Management (1 day)		
MS Project Planning 2007 software (2 Days)		
Project Evaluation/Cost-Benefits Analysis (1 day)		
OHS & Safety Risk Management (2 days)		
Network Management (1 day)		
Estimating, Tendering & Evaluation of Tenders (2 days)		
Public Finance Management Act & Procurement Procedures (1 day)		
Asset Management (2 days)		
System Safety Engineering (2Days)		
FIDIC		

TRAINING PROGRAM (FEBRUARY - NOVEMBER 2016)

February	March	April	May	June	July	August	September	October	November	December
2 M							5-16 POM			
19 M						10-11 POM				
	7-8 POM				11-12 POM					
					20 POM			10 POM		
26 M						22-24 POM				
				8-9 POM						
				14 POM					01 POM	
			5-6 POM					20-21 POM		
	17 POM					31 POM				
		5-6 POM					26-27 POM			
				27 POM					08 POM	
		22-23 POM						27-28 POM		
			19 POM		26 POM					
	28-29 POM				28-29 POM					
									15-17 POM	
			31 POM						30, POM	

ENGINEER'S PASSION TO IMPROVE ACCESS TO POWER

Business Advantage PNG has profiled one of the more popular female engineers in the country, Finkewe Zurenuoc, in its October 2015 edition, describing her as a trailblazer for women engineers in the country with a passion for improving the people's access to electricity. Here, the IEPNG reproduces that article in full, in a bid to promote the role of women in engineering and in particular to highlight Zurenuoc's achievements in the profession, which was once dominated by males.

For more than 30 years, Finkewe Zurenuoc has been a trailblazer for female engineers in Papua New Guinea. The PNG Power board member is now focusing on using her professional experience to help improve accessibility to power in remote areas.

As an engineer, Finkewe Zurenuoc has witnessed a lot of significant developments in Papua New Guinea.

More than 30 years ago, Zurenuoc became PNG's only female engineer when she graduated from the PNG University of Technology with a degree in electrical engineering. Much of her career since then has focused on the mining industry, starting at the Ok Tedi mine in Morobe Province in 1984, the year after she graduated, and now today as a senior project manager with Kramer Ausenco. Zurenuoc recalls being part of the development of the Ok Tedi mine, as it became a major driver in PNG's growing economy. 'The place (Ok Tedi) literally changed in front of our eyes,' Zurenuoc told Business Advantage PNG. 'What used to be just a construction camp became a town and numbers increased. When I first went up there the locals were running around in their traditional clothing. By the time I left, they were all in western clothing.'

Passion for power

After seeing the resources industry create positive development throughout the country, Zurenuoc's passion has shifted to helping improve the country's power sector.

For more than a year, Zurenuoc has also been a director at PNG Power, where she sits on the board as a female representative and for her technical expertise in the field.

"I would like to see that power be made reliable and accessible to the majority of the PNG population and not just the people living in towns and cities...."

Zurenuoc believes there is potential to improve access to power in remote areas of PNG, such as towns like Finschhafen District in Morobe Province, where she grew up.

She says Finschhafen District is a typical example of a place where power infrastructure is lacking.

'I would like to see that power be made reliable and accessible to the majority of the PNG population and not just the people living in the towns and cities,' Zurenuoc said.

'I can enjoy it in Port Moresby or Lae but I would like to be able to make a change to help something happen for the people in my home, for them to see similar services, maybe not up to the standard of in the cities and towns, but enough to be sufficient for their needs and maintain their livelihoods.'

Zurenuoc believes renewable energy, especially solar power, could



provide future answers to the current lack of access to power.

She said PNG has an opportunity to develop a 'clean energy' sector to add to its future energy capacity, but only if capital investment could be secured.

'I would like to see development of more power stations in PNG to generate electricity. I am in particular looking at green energy solutions, clean energy or renewable energy solutions to help our people,' she said. Zurenuoc welcomed the O'Neill Government's commitment to introducing new initiatives to improving its power infrastructure and access to electricity in remote areas.

'I think there needs to be the political will in the O'Neill Government to make sure power gets to the people,' Zurenuoc said.

'Electricity allows economic development for our people. Even if a mother is out in the bush somewhere in Papua New Guinea, if we can provide power we would be able to do so many things there—like run a small shop.'

No longer alone as a female engineer in PNG, Zurenuoc has been pleased by how women have progressed in the engineering profession in the country, and continues to make an effort herself to mentor younger engineers.

'I tell people when I first started as an engineer I was mentored by a male engineer. But

now I mentor female and male engineers as well,' Zurenuoc said.

In addition to her role at Kramer Ausenco, Zurenuoc is a board member of the Institution of Engineers, and the Professional Engineers Registration Board.

Zurenuoc's career in mining has also included stints at Bougainville Copper, the Porgera gold mine, at BHP Billiton's offices in Australia and, more recently, with Kramer Ausenco at the Lihir gold mine.

Source: businessadvantagepng.com



(TOP) The Yonki hydropower facility, in Eastern Highlands, is a project aiming to improve power access in PNG.

ABOVE: Kramer Ausenco's Finkewe Zurenuoc. Credit: Lorraine Siraba/businessadvantagepng.com

EDITOR'S NOTE: IEPNG Members or Stakeholders who wish to contribute to this newsletter are welcome to do so and can get in touch with the IEPNG Editorial team on telephone number 325 8765 or 325 8763, through fax number 325 8718 or email JethroWamm@iepng.org.pg