

Chamber of Eng Tech News. July 2018

PO Box 1269, Ferndale, 2160. Head Office Tel / Fax (011) 787 9706.

E mail engineer@netactive.co.za

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Engineering Technology Keeps Your World Working!
See www.engineeringchamber.yolasite.com

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No 1. Race Statistics of COET Membership.

(The Government and State Organisations often requests this information from COET)

Asians	2.4%
Blacks	7.01%
Coloureds	2.48%
Whites	51%
Unknown (not supplied by members)	37%

And the odd Joker who states Martian on their answer!

No 2. NSTF Awards.

COET is a member of the NSTF.

The [NSTF-South32 Awards](#) were held at a prestigious [Gala Dinner](#) in Gauteng on Thursday, 28 June 2018. This is the 20th anniversary celebration of the flagship project of the [National Science and Technology Forum \(NSTF\)](#). To celebrate the event, tributes were made to the 204 NSTF Awards recipients (since 1998) and a special anniversary award to Dr Xolani Humphrey Mkhwanazi.

Outstanding contributions to science, engineering and technology (SET) and innovation were awarded and celebrated in the following broad areas under 13 [categories](#).

About the NSTF and the awards: The NSTF is the most representative multi-stakeholder non-profit forum in South Africa promoting SET and innovation. The NSTF-South 32 Awards showcase the research and development capacity of our nation. The excellence of the winners supports South Africa's advancement and the social upliftment of our people.

Why are these awards different? The national NSTF-South32 Awards are the largest SET and innovation awards in South Africa. They are known as the 'Science Oscars' and were the first science awards in the country.

Visit www.nstf.org.za for more information.

No 3.

Time is a great teacher, but unfortunately it kills all of its pupils. Louis H Beriloz (French composer).

**No 4.
Mentors.**

We thank those members that answered the appeal for Mentors. We now have a very short list of persons to whom we will refer candidates for help. Requests for mentors are sometimes received from students and candidates.

What is a mentor? Simply put he or she is an adviser. The mentor offers advice and guidance and does not have to become an educator or trainer. The depth, detail and frequency of the advice given is up to the mentor.

Requests for mentors will be passed on to the mentors listed in the appropriate discipline and the mentor then may accept or reject the request.

Help future Technologists and Technicians by putting your name on the list please.

Send us an E Mail with your name and E mail address and indicate what discipline of engineering you may assist in with to engineer@netactive.co.za. Mark E Mail MENTORS please.

Thanks from all the young members!

**No 5.
ECSA CPD problems.**

A number of members have noted that the ECSA website for CPD does not work. It appears that the person's history is lost. This also applies to the records of who is registered and who is paid up or not!

When trying to verify a person on the ECSA website to see if they are registered the discipline is not indicated.

This is a major problem in that someone can now claim to be an engineer, technologist or technician in a specific field and one does not know if it is in fact true.

If you experience such problems (or have the solution) please notify ECSA directly. ECSA contact details are

ECSA Private Bag X691

Bruma

2026

Tel 011 607 9550

Fax 011 622 9295

E Mail engineer@ecsa.co.za

ECSA Website www.ecsa.co.za

Ed; Keep records (preferably paper records) of all your dealings with ECSA for at least 7 years!

Paper does not need a battery to keep it going or to read the records!

We have taken this up with ECSA and the Answer from ECSA about this is below.

Thank you for your email. ECSA is aware of the challenges experienced with the new ECSA Online system and is looking into the various cases.

From my side all CPD cases highlighted are investigated and rectified. May I therefore request that you escalate all CPD related queries to cpd@ecsa.co.za and all log-on queries to engineer@ecsa.co.za

Thanks.

Ed; So we wait and see?!??

**No 6.
Site Visits.**

Is anyone interested in attending a site visit, during normal week working hours, to say SA Breweries or the SABC, etc. (Johannesburg area). If so please send us an E mail to say yes or no and we will try to organise a visit and keep you informed of details, and when etc. Mark E Mails COET SITE VISITS please for easy sorting.

E Mail engineer@netactive.co.za

No 7.

Branch Chapters.

Is anyone interested in starting a COET Branch in one of the major cities? A few meetings a year may be expected. Financial help in organising will be given within reason. Any suggestions and volunteers please E Mail us about this if interested. Mark E Mails COET BRANCH Chapters for easy sorting please.

E Mail engineer@netactive.co.za

No 8.

Office Hours.

Kindly note that our office is staffed mainly by volunteers on a part time basis. This means that when phoning you may get our answering machine. Please leave a voice message and repeat your contact details including E Mail and Postal address and the nature of your enquiry. We get some calls on very bad lines and persons speaking so fast that it is impossible to decipher what they are saying. Calls from Cell phones are of particularly bad quality!! Often return numbers given are indecipherable or incorrect and dial codes are also often not given! Calls, Faxes and E-Mails are normally answered on the next working day.

During the last few months we have experienced a few days of load shedding and the odd day with no telephone or internet service. When the power is down nothing works including our telephone and fax service! So if you phone and the phone sounds like it is just ringing and ringing you will know we have no power (again). With winter here it may just get worse!

Thanks

COET PO Box 1269 Ferndale 2160. Tel / Fax / Answering Service 011 787 9706. E mail engineer@netactive.co.za

No 9.

President Ramaphosa: Work experience is a barrier to employment.

President Cyril Ramaphosa has called on both private and public sector companies to employ young graduates despite their lack of work experience.

Speaking recently in Soweto, he said the requirement of work experience had become a barrier for employment among the youth. This requirement should be put aside and companies should employ young graduates regardless of what experience they possess.

He said, "The challenge for unemployed youth is not only one of skills. There are many graduates, who have completed university degrees, who are still unemployed. This is a vast pool of skills and knowledge that is being wasted."

"Employers need to understand that for our country to succeed, for their businesses to thrive, they must take responsibility for providing young people with the work experience they need.

"They must realise that the only way to get work experience is to get work."

Ed; Pass this on to your HR department!

No 10.

Adverts of interest to members.

COET is prepared to place small *text only* adverts in the Newsletter if they are deemed to be of direct interest and value to members. The Editor and Executive's decision on any particular advert is final. The adverts may not exceed 350 words and are, for the time being, free. Adverts from any company for engineering vacancies (jobs) are **FREE!**

Please pass on this offer to your companies HR department or Bosses.

Adverts from members who are seeking employment are also accepted and are **FREE!**

Only Text based adverts will be included in the Newsletter and placed in the version of the Newsletter that is put onto the COET Website.

Any adverts must be submitted as MS Word Documents and no other formats such as Pdf etc. No Graphics accepted! As our country is experiencing a difficult economic and financial crisis our organisation is trying to assist members where practical. Requests for advertising should be addressed to;

COET

P O Box 1269

Ferndale

2160

Tel 011 787 9706 Fax 086 664 7963

E mail engineer@netactive.co.za

www.engineeringchammberr.mirrorz.com

Job Required.

I am qualified with BTech (Structural & Transportation) in Civil Engineering from the University of Johannesburg, registered with ECSA as a Professional Technologist Engineering and currently doing part-time Master Engineering in Structural.

I have more than 13 years of experience in Civil Engineering industry and specialised as a Geotechnical, Structural, Laboratory, site Supervision and Pavement Design Technician of single, dual carriageway roads, streets in urban, passes and rural developments. I am also confident in the preparation of the contract documents and specifications

I have been involved in the private and government projects as follows:

- Light, medium and commercial buildings
- Schools
- Municipality

with core qualifications as follows:

- Strong civil engineering experience
- Excellent familiarity with auto manufacturing facilities design specifications and building codes
- civil engineering report and project estimate calculation techniques
- High organizational and supervisory skills
- Sound ability to ensure full project compliance with applicable rules and regulations
- CAD, AutoCAD Civil 3D, Revit, Robot Structural Professional Analysis and AutoCAD Structural Detailing abilities
- Providing technical consultation assistance as needed.
- Good oral and written communication skills

I am available to work on contract or freelance. And I can be joined at 078 918 9163

Bruno Tayo

Physical Address:32 Good Street Triomf Westdene

Tel.: 0789189163

Email.: btayo2018@gmail.com

No 11.

Services Offered By Members.

(Free ad for members)

Please visit our Website

<http://engineersdirectory.co.za/>

For all details.

Wherever possible support your fellow members!

No 12.

All Contributions to Newsletter Welcome! We love receiving!

Letters of Comment on any matter
Reports and happenings
News articles and links
Anything of engineering or science interest
Anything that may tickle your fancy!

No 13. Snippets.

The following mini articles, notices and news follow the trend of interesting scientific, engineering developments and general interest items that we come across. Read and enjoy!

Please feel free to contribute by sending your articles to share with our members!

Ed



CENTRE FOR
DEVELOPMENT
AND ENTERPRISE

VIEWPOINT is a new series published by CDE in which the expertise of South Africans from a range of organisations will be used to encourage and enrich debate on important issues.

In the first of the series, Jonathan Jansen, Distinguished Professor of Education at the University of Stellenbosch shares his views on the future prospects of South African Universities. His emphasis is on the role of the university and national-policy makers in preventing further erosion of the academic project. He has some interesting thoughts on primary education.

The report is available at <http://www.cde.org.za/viewpoints-the-future-prospects-of-south-african-universities-cde>.
(Cut and paste the link above to get to the information, clicking on it won't work)!

Ed; where do politicians and top SADTU members school their children?

Lesson learned? Massive study finds lectures still dominate STEM education

An analysis of more than 2,000 USA and Canada college classes in science, technology, engineering and math has found that 55 percent of STEM classroom interactions consisted mostly of conventional lecturing -- a style that prior research has identified as among the least effective at teaching and engaging students.

The University of Nebraska-Lincoln Marilyne Stains and her colleagues found that 55 percent of STEM classroom interactions consisted mostly of conventional lecturing, a style that prior research has identified as among the least effective at teaching and engaging students.

Another 27 percent featured interactive lectures that had students participating in some group activities or answering multiple-choice questions with handheld clickers. Just 18 percent emphasized a student-centred style heavy on group work and discussions.

The predominance of lecturing observed in the study persists despite many years of federal and state educational agencies advocating for more student-centred learning, the researchers said.

One potential culprit captured by the study: Faculty may lack the training necessary to take advantage of smaller class sizes, open classroom layouts and other strategies meant to reduce the reliance on conventional lecturing. Lectures did occur less often in smaller than larger classes, the study found, and open layouts did correlate with more student-centred learning. But about half of the courses with those advantages still featured more conventional lecturing than interactive or student-centered teaching styles. "When you talk to faculty, you often hear, 'I teach in an amphitheatre. I could never do group work; it's just not practical. But if I had a small class, I could do it,'" Stains said. "But just because you have the right layout doesn't mean you're actually going to (promote) active learning. You need to be trained in those kinds of practices. If there's not a budget for professional development to help faculty use those environments, they're going to default to what they know best, which is lecturing."

Stains authored the study with colleagues from Auburn University; Simon Fraser University; the University of British Columbia; the University of Colorado Boulder; the University of Iowa; Armstrong State University; the University of California, Los Angeles; Otterbein University; the University of California, San Diego; the University of Michigan; the University of Calgary; the University of Virginia; the University of Maine; and Saint Mary's University (Halifax).

The research team received funding in part from the National Science Foundation and the National Institutes of Health.

Source: Science; University of Nebraska-Lincoln (March 2018).

Ed; Thank goodness that University Engineering Students still have workshop and Lab work as part of their courses!

South Africa Maths at the Bottom of the Class!

South Africa was ranked second from the bottom in Grade 8 Mathematics and last in Grade 8 Science means test score in the 2015 Trends in International Mathematics and Science Study.

South Africa was also ranked last in Grade 4 Reading mean test of the 2016 Progress in International Reading Literacy Study. The disappointing performance of South African learners in these tests strongly suggests the presence of poor quality education at most schools, which subsequently becomes a crucial factor that sustains and deepens poverty.

The under-performance of learners has to do with a wide range of factors. These include family socio-economic status, access to basic learning resources such as textbooks and school facilities, teacher quality, remuneration and absenteeism, and even quality of preschool education. All these areas should receive urgent policy attention.

Derek Yu is Associate Professor, Economics, University of the Western Cape. This comes from The Conversation, and is an extract from the journal article entitled "Multidimensional poverty in South Africa, 2001-2011", which the writer co-authored with Tina Fransman, an Economics Masters graduate at the University of the Western Cape.

Help SA Basic Education.

Read to Rise is a non-profit organisation committed to promoting youth literacy in schools in South Africa's under-resourced communities. As the name indicates, we firmly believe that children need to read in order to rise in their personal development and contribution to society.

Children who love reading, excel at school and go on to become constructive members of society. It all starts with reading.

You can support them with a donation of as little as R50. Pass on this appeal to your company's management. They can perhaps support as part of their social development aims.

For details see;

<http://www.readtorise.co.za>

Become someone's hero, a solutionist not a criticismist!

Ways to Encourage Kids to Read.

Read! Sounds simple and is simple. If we're going to encourage kids to read, then we need to do it too. Read for pleasure, information, instructions, connecting with others and so on. Just read. And read a little more than you've been reading lately.

Fill your room with books. Kids who grow up with books all around them learn to think of books as friends and allies in their pursuit of adventure and learning.

Be a good reading "role model" for your students. Let them see you reading, and how much you enjoy reading books and magazines. Share your reading experiences with colleagues, friends and students. Tell them what you've been reading, what you've gained or learned from these texts, what you recommend.

Encourage your students to find new books on their own to read. While showing your students books is a good way to build their interest level, a child who finds new books on their own can benefit from an increased sense of independence. Give students a choice in what they want to read. Children are more likely to read when their interests are taken into account and they have control of how and what to read.

Ed; Do your bit to improve SA's reading and knowledge base!

Where Have The Mine Dumps Gone?

Mr P Ball who is a member of our sister Institute (IPET) has written a number of interesting articles including one about the mine dumps in and around Johannesburg. These may be found on the Heritage Portal and should you wish to peruse them go to <http://www.theheritageportal.co.za/article-author/peter-ball> or into the Portal (www.heritageportal.co.za) and select "Articles" then search "Author" by forename "Peter Ball". Cut and paste the text as clicking on it may not work in this newsletter.

Worth a read.

Ed; Our thanks to Peter Ball.

TV to Die?

Recently, Amazon quietly announced that it has secured a three year deal to stream 20 English Premier League fixtures, starting next year. The 100 million subscribers to its subscription service Amazon Prime will get to watch these games for free.

The announcement came on top of Amazon's recently secured rights to the US Open and other tennis events and some American Football games. Economic historians may one day record this as the fatal blow for old-style television. In sport, nothing enjoys greater pulling power than English soccer.

Around the world, television audiences have been in sharp decline for years. Last year, worldwide advertising on the internet (\$209bn) surpassed that on television (\$175bn) for the first time. The gap will keep widening with online growing in double digits while TV has flat lined.

Live sport is the final bastion of traditional television, the last big reason for households to resist "cutting the cable." Amazon has now very definitely opened that door. And as fellow disruptor Netflix keeps proving, once a superior business model gets a foothold, the status quo never recovers.

Lee Child famously said that "one should plan for the worst and hope for the best."

No 14.



The Joke Column.

Warning / Disclaimer.

We apologise in advance for any misconceptions as Sensitive readers are warned that the following may erroneously be taken to contain sex, violence, strong language, gender, race, ethics, politics etc. Readers are warned not to read or have any of the following read to them. Recommended readers age is limited to 130 and 161 years of age. A further requirement is you must have a sense of humour. You have been warned!!

No one was and is meant to be harmed by this Jokes Column! (and no animals were injured either)!

When I lost my rifle, the Army charged me R600. That's why, in the Navy, the captain goes down with the ship!

Comedian Dick Gregory

Eat, drink and be merry – for tomorrow we diet.

There's a new garlic diet around. You don't lose weight, but you look thinner from a distance.

Red Sheanon "The Tommy Hunter Show", TNN, Nashville USA.

And a sign of the times;

Walking into a bank, a woman says to the manager, I'd like to talk to you about a loan."

"Great!" the banker replies. "How much can you give us?!"

Joey Adams.

A recent scientific study showed that out of 2,293,618,367 people, 94% are too lazy to actually read that number.

A boss announces to his staff: "I've lost a wallet with 500 dollars, if you find it, I'm offering a 100 dollars finder's fee!"

A voice in the background says: "I'm offering 200!"

Knock, knock!

Who's there?

Opportunity!

That is impossible. Opportunity doesn't come knocking twice!

A man bumps into a friend and sees that his friend's car is a total-loss and covered with leaves, grass, branches, dirt and blood. He asks his friend, "What's happened to your car?"

"Well," the friend responses, "I ran into a lawyer."

"OK," says the man, "that explains the blood... But what about the leaves, the grass, the branches and the dirt?"

"Well, I had to chase him all through the park."

#



Ed; I wish!

No11. Unsubscribe.

As a member of CET you should want to receive the E News. If however you do not want to receive the CET E News as an E Mail then you have the option to unsubscribe.

To unsubscribe send an email with ""CET unsubscribe"" in the text to engineer@netactive.co.za

Number 12. E. & O. E.

The Chamber of Engineering Technology (CET), its agents, volunteers, workers and members cannot be held responsible for errors in, amendments to, or any damages whatsoever arising from information published in good faith. Opinions expressed by contributors are not necessarily shared by CET.

No13. DISCLAIMER

The Chamber of Engineering Technology makes no guarantees as to the accuracy, completeness and/or reliability of any information, data and/or content contained in the Newsletter or on it's Websites. Information contained in this email, newsletters and the Websites shall be construed as advice and is offered for information purposes only. You accordingly assume total responsibility and risk for your use of and reliance on this information. COET takes no responsibility for formatting, over printing of letters, as well as odd spaces appearing in text in the newsletter as these appear to be due to software errors and do not appear on the original typed newsletter on our computer.

See next page!

No Free Ad for Members of COET & IPET. Update 2017 April.

Our previous notice regarding this has reference.

As some of the information provided by members may have been incomplete or too long or incorrectly captured we ask that you complete and return the form below so we can correctly load your information onto the list. The data will be made available on our Website and another yet to be created Website. We hope that this will improve networking opportunities for you. You only need to complete and send this if you wish to advertise your services. If you don't want to be on the list don't send it to us! All the information on this completed form will become available to the public. Kindly note this form is two (2) pages long.

Please fill in the form!

Question	Answer
1. Category (Aeronautical, Agricultural, Chemical, Civil, Electrical, Industrial, Mechanical, Metallurgical, Mining, Other – ONLY-- Chose not more than 2)	
2. Speciality Service (Consulting, Construction, Design, Fabrication, Manufacturing, Structural etc <i>- Not more than 8 words</i>)	
3. Membership Number	
4. Company name / self employed	
5. Company Registration number	
6. VAT number.	
7. Postal Address	
8. Telephone & Fax numbers	
9. Web address	
10. E Mail address	
11. Your name & initials	

FreeAdForm2017

Free Advert Service for Members.

Tel/Fax 011 787 9706

engineer@netactive.co.za

2016

In order to assist members in these difficult financial times and to improve networking opportunities between members, as well as helping one another in solving technical problems, IPET and its sister organisation (COET) is compiling a database of members and their company's competences.

This is FREE Service to COET & IPET members and will be made available to members. Also, but only with your permission, the database may be made available on our Website and another (yet to be launched) Website. The free advertising should help fellow members and also bring in further work opportunities.

The list will be divided initially into following categories, specialities/competences and thereafter alphabetical.

As much or as little information as you wish may be included. Note that COET & IPET reserves the right to shorten and summarize descriptions given to ensure that the list does not become too cumbersome to handle. No graphics or pictures are allowed.

1. Category:- Agricultural, Aeronautical, Chemical, Civil Construction, Civil Structural, Electrical (both heavy and light current), Electronics, Computers, Information Technology, Industrial Communication and Measurement, Radio, Broadcasting etc. Hobbies may be included if you wish, but please indicate it as a hobby. **(It is mandatory that information required in Categories 1 and 2 be specified or the information provided is meaningless as it cannot then be placed anywhere!!)**
2. Speciality/competency: Parts manufacturer/supplier, Nuclear, Servicing, Construction, Consulting etc.
3. Membership Number
4. Company Name / Self employed
5. Company Registration and VAT numbers
6. Postal Address
7. Telephone and Fax numbers
8. Web Address
9. E.mail Address

If you wish to be included in this list please indicate your acceptance of this offer by printing, signing and dating the form below. (*Three signatures and dates are required*)!

AND Please print your name, sign and date here accept the offer and prove that you have the authority to do so.

AND Finally print, sign, and date here to give your approval for placing your information on our Website and alternate (yet to be launched) Website.

NOTE: Acceptance of the above can be cancelled at any time in writing. Unless otherwise stated this signed form indicates acceptance of this offer for a period up to 31 December 2021

Sign and date again Please!

2016Adlist2016/11/25

**The Chamber of Engineering
Technology**

**P O Box 1269, Ferndale 2160
To All Members**

Fax 086 664 7963

E Mail engineer@netactive.co.za

Post & E Mails to you may not work! If you have not sent us an update in the last 12 months and details have changed please complete this form in large black font.

Return the completed form to us by E Mail or Post. Faxes not recommended due to poor quality.

You are strongly advised to provide us with your E mail address.

This will allow us to send you our regular E Newsletter. We have discontinued sending hardcopy newsletters by post at this time.

Form for Individual Members

Last name		Initials	
First Names			
Your Preferred Postal Address			Postal code
Work Postal address		Postal code	
Name of Employer / Company			
Your or your Company's main field of engineering			
Work Tel (include area codes for all numbers)		Work Fax	
Home Tel		Home Fax	
Cell No	E Mail This is important!		
Membership Number			
Engineering Council of SA Registration Number (If applicable)			
I D Number			
Race (For statistical purposes only) Government often demands this info.		Asian (Indian etc) = A Black = B Coloured = C White = W	

