

Engineering Technology Keeps Your World Working!

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No 1. Membership Statistics.

These details are often requested by Government, State & Municipalities.

Asians	(6.2%)
Blacks	(16.3%)
Coloureds	(2.9%)
Whites	(51.5%)
Unknowns	(22.9%)

Only 2.5% are female!

No 2.

ECSA. Related News.

ECSA has reduced the discount offered to our members to only approx. 15% (R555). (ECSA fee R3627 or R 3072). It appears that no historical paperwork supporting the concession / discount could be found.

There is a move to revise the requirements and functions of the Voluntary Associations. The latest was a call for comments on the proposed new Engineering Act. A request for an extension on the ridiculously short time allowed was submitted but no response at all was received.

Information given to IPET was that despite both ECSA and the Minister being approached about the apparent flawed nomination process for ECSA Councillors no response was received. The date of the forthcoming Court case brought by the South African Institute of Civil Engineers challenging the procedure and the changes made to the list of nominated councillors is still awaited. This may take many months to be settled.

IPET Council decided to support the South African Institute of Civil Engineers (SAICE) in their forthcoming Court case and has donated R10 000 to SAICE as IPET has an interest in this matter. Some 15 organisation have given donations to SAICE for this matter.

SAICE hosted a Civil Talk titled: ECSA Vs the Engineering VA's on 22 June 2017. The Civil Talk provided an opportunity for the voluntary associations to engage with members in an open discussion about:

1) their relationship that exists between ECSA and the VA's

- 2) the impact of the ongoing litigation on both parties as well as;
- 3) the future of the engineering profession and industry in the country

The discussion was led by a panel that comprised of SAICE CEO Manglin Pillay, CESA CEO Chris Campbell, Former Council member and Central Registrations Chair Dr Titus Mathe and Former SAICE President Mike Deeks. The discussion was facilitated by Sean O Beirne.

An invitation was extended to ECSA to be part of the discussions however they declined.

Both COET and IPET sent delegates and in fact also posed some questions to the panel. The entire session was video recorded. Please follow links below to view. (You may have to copy them as they may not link in this newsletter).

Highlights and interviews:

https://www.youtube.com/watch?v=N_pC4_BUmTY&t=3s

Full version:

<https://www.youtube.com/watch?v=gSRAhJ8S-ZI>

We foresee interesting times ahead!

"If you are neutral in situations of injustice, you have chosen the side of the oppressor. If an elephant has its foot on the tail of a mouse, and you say that you are neutral, the mouse will not appreciate your neutrality."

Desmond Tutu

No 3. Of This and That.

Invoices and reminders for the fees for 2017/ 2018 were sent out by post and E Mail. Payments are starting to come in although a bit slowly.

To those of you who have forgotten IPET's financial year runs from April to March the next year. To those of you who have already paid we thank you for your diligence.

The normal fees for 2017/2018 are as follows;

Application R110

Student R110

Graduate R220

Associate R330

Member R440

Fellow R460

Retired R80

Retired and over 70 years of age R Nil. (Members must apply for this as it is not automatic).

New Certificates R110

Upgrades R 110.

Sadly there are a number of members who have not fully paid previous year's fees, so end up with odd amounts owing that are more than the normal fee for this year.

E Mails.

As the internet becomes ever more invasive, computer savvy members and companies are using **SPAM**

FILTERS to separate legitimate email from the hoard of promotional messages that invade email **INBOXEs** every day.

These filters are very smart and useful but sometimes are a little too smart for their own good. They can shift essential emails into your Junk mail folder and cut you off from critical and essential information. So to ensure you receive our Newsletters add the following addresses to your **SAFE SENDERS list**.

engineer@netactive.co.za

Members who supplied E mail addresses which end in Spornet, Telkomsa.net, Transnet, Eskom and Gov (Government) or Municipality and Aurecon are warned that our E News is often blocked.

This unfortunately also applies to some other firms and consulting engineering companies.

Members must sort this out with their IT people at work or their Internet supplier.

Your own Computer settings also need to be checked and set especially if you have filters of any sort in your machine.

It is not something we can do from our end!

We recommend you get your own private E Mail address please.

Without continual growth and progress, such words as improvement, achievement, and success have no meaning. - Benjamin Franklin



No 4. CPD Courses.

Reminder!! - For professional re-registration with ECSA, at least 5 credits are required per five year cycle from Category 1 (Attendance of structured educational / developmental meetings). Unfortunately, only a maximum of 4 credits per annum can be accumulated each year in category 1.

For the CPD Courses and providers please go to our Web Site and download the CPD Course List PDF File. A full list was published in the December 2016 Newsletter.

SEE also www.engineeringchamber.yolasite.com as we have an agreement with COET that allows our members to also claim the discount offered on some of their approved courses.

Too often too late comes too soon - Dr Sunwolf

No 5. Policy; Facebook, Twitter, and other Social Networks. All Members Please Note!!

We get suggestions that the Association should be on one or all of the above social networks.

A recent survey found that checking social media and e mails cost 40% of respondents more than an hour each day in lost productivity!

So to all members (and others) who have asked us to join their group or circle we will not be doing so at present as we just do not have enough time available or volunteers to handle this task.

The above also applies to the Editor and Admin Officer.

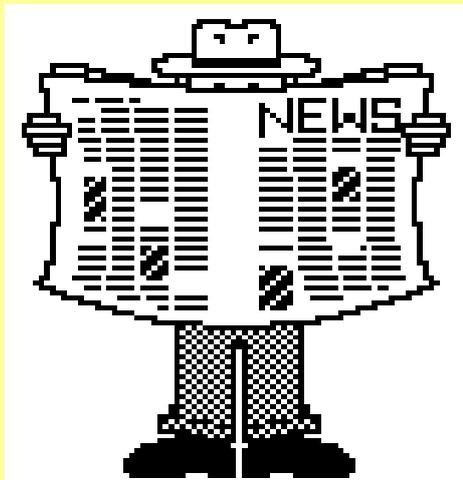
Ed.

No 6. 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.



Biodegradable plastic.

Some biodegradable plastics could in the future be made using sugar and carbon dioxide, replacing unsustainable plastics made from crude oil, following research by scientists from the Centre for Sustainable Chemical Technologies (CSCT) at the University of Bath.

Current manufacture of polycarbonates that are used in bottles and many other products are made using highly toxic phosgene that was used as a chemical weapon in World War One.

The scientists have made alternative polycarbonates from sugars and carbon dioxide in a process that uses low pressures and room temperatures. This new polycarbonate can be biodegraded back into carbon dioxide and sugar from soil bacteria.

Source; University of Bath.

Graphene Transistors?

The University of Central Florida research team has developed a graphene-based transistor that could someday lead to computers that are a thousand times faster and use a hundredth of the power.

Current transistors are silicon-based.

As reported this month in the scholarly journal *Nature Communications*, researchers have theorized a next-generation transistor that's based not on silicon but on a ribbon of graphene, a two-dimensional carbon material with the thickness of a single atom.

Researchers found that by applying a magnetic field to a graphene ribbon, they could change the resistance of current flowing through it. For this device, the magnetic field is controlled by increasing or decreasing the current through adjacent carbon nanotubes.

The speed of computer microprocessors that rely on silicon transistors has been with clock speeds in the 3 to 4 gigahertz range. Graphene based devices could be a thousand timesw faster, smaller and more efficient.

Source: University of Central Florida.

Concrete using recycled Tyres.

University of British Columbia (UBC) engineers have developed a more resilient type of concrete using recycled tires that could be used for concrete structures like buildings, roads, dams and bridges while reducing landfill waste.

The researchers experimented with different proportions of recycled tire fibres and other materials used in concrete -- cement, sand and water -- before finding the ideal mix, which includes 0.35 per cent tire fibres, according to researchers.

Recycled-rubber roads are not new; asphalt roads that incorporate rubber "crumbs" from shredded tires exist in the U.S., Germany, Spain, Brazil and China. But using the polymer fibres from tires has the unique benefit of potentially improving the resilience of concrete and extending its lifespan.

Lab tests showed that fibre-reinforced concrete reduced crack formation by more than 90 per cent compared to regular concrete.

Source; University of British Columbia.

Workers work 44 days for the state

18 May 2017 – Tax Freedom Day is calculated by dividing general government revenue by GDP for a calendar year, applying this fraction to the number of days in a year, and adding a day. Since 2001, there has been a steady trend toward taking more of the GDP in taxes with the government taking an extra 1.77 days of national production every year.

In 1972, Tax Freedom Day was 27 March. It is now taking about 44 days or six weeks more of extra work to pay for government than it did 22 years ago and 60 days more than it did 45 years ago!

Government salaries alone consume more of our work today than the entire state budget did in 1994. The government seems intent on continuing this trend as the rate at which the budget will increase is larger than the expected growth of the economy.

Source; Article by AG Zietsman , statistician in an article published by the Free Market Foundation.

Robirds!

Edmonton International Airport in Canada will become the first airport in the world to use the Robird, a full suite of unmanned robotic "birds" on a daily basis. The Robird is produced by Clear Flight Solutions, a University of Twente (The Netherlands) spinoff company. It's a lifelike robotic bird that will scare real birds away from the airport, starting at the end of May.

The high-tech Robird mimics the flight of an actual falcon in realistic fashion, making its flight behavior so indistinguishable from its natural counterpart that other birds believe that their natural enemy is present in the area.

Source; University of Twente.

Fuel cell powered locomotives

Anglo American Platinum, Amplats, (AMS) is the world's largest producer of platinum and is testing five different prototypes of fuel cell powered locomotives for eventual use at its mines in South Africa. The company is also working with Ballard Power Systems, Inc. (BLD) to produce 15 kW fuel-cell generated electric power units to 34 households over a 12 month period; the fuel cells will be powered by methanol and platinum metals as catalysts.

Source; Amplats.

National Science and Technology Forum (NSTF).

The NSTF recently announced a new collaboration with the Square Kilometre Array (SKA) South Africa to reward South Africa's 2016 top matriculants in mathematics and physical science. The collaboration will see SKA SA support a national astronomy tour from 22-29 June for participants selected for the [NSTF Brilliants Programme](#).

The programme recognises first-year students studying in the fields of science, medicine and engineering. The 2016 top-performing female and male matriculant from each of the nine provinces was selected for the programme, based on their marks in mathematics and physical science in the most recent National Senior Certificate (Grade 12) Examinations.

NSTF and SKA SA celebrate youth: The astronomy tour will conclude with the prestigious [NSTF-South32 Awards Gala Dinner](#) to be held at Emperor's Palace, Kempton Park, Gauteng on 29 June. The Brilliants Awardees will be recognised and introduced to the science, engineering, technology (SET) and innovation community.

Source: NSTF.

Old mathematicians never die; they just lose some of their functions.

No 7. New Members.

We welcome the following new members who joined in 2017.

Members Name	Initials	Members Number	Grade
Adams	ED	3553	G
Babi	B	3544	M
Dantuma	P	3554	M
Esterhuizen	W	3545	M
Jardine	MA	3552	M
Lakay	A	3358	G
Magaga	S	3555	M
Maposa	M	3551	G
Mashaba	L	3543	M
Mokwatlo	JS	3550	M
Mothebe	NA	3541	M
Mthembu	MA	3357	S
Ncube	BE	3547	G
Nomdoe	EJ	3542	G
Pardeshi	N V	3558	G
Poolo	A M	3556	G
Sebapo	Kh	3548	G
Shangase	NN	3549	S
Stolz	AHG	3546	G
Zondi	H	3357	G

No 8. Lost Members!

The following is a list of members whose post is returned unknown, unclaimed, gone away etc.

Please check the list and advise us and the member if you know him/her accordingly.

Use the Information Update Form at the end of the newsletter if needed.

These persons are likely to be deleted from the IPET membership list soon.

Members Name	Initials	Grade	Members Number
Adeniran	AO	M	3206
Badenhorst	CH	M	2567
Botha	M	GD	3090
Botha	AD	M	1754
Coetzee	DJJ	D	0980
Japani	P	M	3521
Johardien	M Z	M	3181
Kannigadu	BM	M	2945
Khan	A	M	2654
Landman	CH	M	2972
Mbili	MG	M	3333
Nel	JA	M	3071
Sillman	C R	M	2764
Slade	DB	G	2136
Tulloch	KT	M	2494
van Wyk	JJJ	M	2794

No 9. Certificates Returned Undeliverable.

The following is a list of members whose membership certificates sent by registered mail have been returned to us as undeliverable, unknown, gone away, unclaimed etc. These members were sent tracking numbers by E mail and post.

If your name is on the list or you know the person kindly advise them to take appropriate action. This is not something we can solve from our end!

Greef PJ

Mothebe NA

Kannemeyer L

Nkhoesa M

Kwinika KP

Phalane MH

Laher R

Pardeshi NV

Machabe MA

Relou R

Makhado M

Sebapo KH

Makhomo SR

Shilowa HK

Makuba S

Sibisi JC

Maladzhi RW

Steyn A

Mano RA

Todkil JG

Mojaje L

No 10.

Failed E mail Addresses and Lost Members List.

It's absolutely amazing the number of incorrect, out of date or blocked E mail addresses members have given us over the past year!

Please see the lists on our Website. These are updated from time to time.

If your name appears on the list kindly supply our office with your latest contact information.

Please do so in writing by E Mail or post but NOT telephonically.

Thanks

See

www.ipet.co.za



No. 11. 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)!

*Cicero of the Roman empire wrote this about the situation during his lifetime

1. The poor, work & work.
2. The rich, exploit the poor.
3. The soldier, protects both.
4. The taxpayer, pays for all three.
5. The wanderer, rests for all four.
6. The drunk, drinks for all five.
7. The banker, robs all six.
8. The lawyer, misleads all seven.
9. The doctor, bills all eight.
10. The undertaker, buries all nine.
11. The Politician lives happily on account of all ten.

Written in 43 B.C. , but valid even today.

No 12. Unsubscribe.

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

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

Number 13.

E. & O. E.

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No 14. Disclaimer.

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PLEASE SCROLL DOWN TO NEXT PAGE!

No 15. The Institute of Professional Engineering Technologists
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Randburg
2125
Tel 011 787 9706 E Mail engineer@netactive.co.za

To All Members

Your E mail, Tel, Fax or Postal address does not seem to work! Please complete & return this form so we can update your details.

Kindly note that E mail addresses that end in Telkomsa.net, Spoornet, Transnet, Eskom and Gov (Government) are usually blocked and not by us!

You have to fix this at the receiving end as we cannot solve this from the senders end.

We recommend members use private individual E Mail addresses instead of Company addresses.

Return the completed form to us by Mail , E-mail or Fax, but Fax is not recommended due to quality.

E Mail must have text message in main area stating what attachment is or it will be deleted as Spam.

Provide us with your E mail address so we can send our regular E News Letter to you. Thank you..

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 (Large font please) This is IMPORTANT.	
Membership Number			
Engineering Council of SA Registration Number (If applicable)			
ID Number			
Race (For statistical purposes only)	Asian (Indian etc) = A Coloured = C	Black = B White = W	Note; The Government often requests this info from us.

