

## Engineering Technology Keeps Your World Working!

### In this issue;

- No 1. Membership Statistics
- No 2. ECSA Related News
- No 3. Of This and That.
- No 4. CPD Courses.
- No 5. Social Media Policy.
- No 6. Snippets.
- No 7. New Members
- No 8. Lost Members.
- No 9. Certificates Returned  
Undeliverable.
- No 10. Faulty E Mail addresses.
- No 11. Unsubscribe.
- No 12. E. & O. E
- No 13. Disclaimer.
- No 14. Information Update Form.

### No 1. Membership Statistics.

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

Asians	6.1%
Blacks	16.6%
Coloureds	2.9%
Whites	51.3%
Unknowns	23%
Only 2.5% are female!	

### No 2. ECSA. Related News.

ECSA has reduced the discount offered to our members as ECSA appears to be spending more money than they receive. This reduction was apparently hotly debated at the Council meeting as it affects all Voluntary Associations. The actual fees for 2017 and the discount have now been finalised but not yet announced.

There is a move from ECSA to revise the functions etc. of the Voluntary Associations and it has had some road shows to explain their thinking.

The legal challenge to some procedures in electing the new ECSA council has resulted in lawyer's letters to both ECSA and the Minister. A response has now been received and the lawyers will be taking the next step soon. This initiative is being driven and administered by SAICE. Some 10 + organisations, including COET have or are to contribute to the cost (R10 000.00 for IPET). The recent ECSA Council meeting has resulted in some outcomes. The most interesting one is about ECSA Fees and Charges (To be uploaded on ECSA website and gazetted soon). Meanwhile ECSA CEO has sent out yet another statement.

(See [www.ecsa.co.za](http://www.ecsa.co.za) ).

*“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**

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### **No 3. Of This and That.**

**Invoices and statements** for the fees for 2017/ 2018 were sent out by post, somewhat late due to a number of technical hassles and consistent and repeating power failures. In the last few weeks of March we had some 9 power failures of many many hours, so all work was stalled. After two weeks of repeated trips we contacted the local DA Councillor and City Power sent out an investigating team instead of a trip re-set man! Thanks to this team, who worked through the night in doing a cable joint and rerouting part of the block on another cable, we now have Electricity. Our grateful thanks to the City Power Teams concentrated effort! We now however do not have any street lights.

To those of you who have forgotten IPET’s financial year runs from April to March the next year. To those of you who enquired when invoices would be sent, 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.

New Certificates R110

Upgrades R 110.

Invoices were sent out by E mail to those who had valid and working E Mail addresses. Sadly many E mail addresses do not work and result in the messages, Undeliverable, Not authorised to receive, blocked etc. As we have stated many times before, please fix these problems at your end as it’s not something we can do at our end.

#### **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](mailto:engineer@netactive.co.za)

Just because you get E mails that are sent to you **INDIVIDUALLY** from us does not mean that you receive bulk E mails.

Some Companies and Internet Service Providers block E mails when they suspect that these E mails are Spam.

**Members who supplied E mail addresses which end in Spoornet, Transnet, Eskom and Gov (Government) and Aurecon are warned that our E News is often blocked as they are suspected of being Spam.**

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!**

*If all else fails get your own private E Mail address please.*

#### **Post.**

Invoices & Statements have been posted to members whose E mails don't work and those who do not have E mail addresses. 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.

#### **Political, Economic & Engineering Scene.**

Business confidence has been depressed domestically and foreign investors have begun to sell South African assets. The cumulative outflow in equities in 2016 was around US\$9 billion. Although we saw net inflows into South African bonds, on aggregate, there have been portfolio outflows from South Africa. With the latest cabinet padding by the president the economic position for all South Africans except some politicians may expect this to worsen! The Rand has already lost some 10% plus of its value!

While SA has many challenges ahead many opportunities will also arise. There will be difficult issues, choices and trade-offs. The call to action must include more and better education and training. The late Nelson Mandela said: "Education is the most powerful weapon which you can use to change the world." So, wherever you can please support education and training, especially in the engineering world.

We praise our members for being the true drivers of the economy and happiness in the country. This they do by offering essential and affordable products and services. We would like to recommend that wherever possible local products and services be used. This is not to say that foreign products and services should not be used, but intelligent and efficient decisions should be made. Buying the apparent cheapest is often short term gain but medium and long term financial disaster. Do not let the politicians and bean counters, who only see a one year view, make your technical decisions! You do so at your peril.

A provisional list of members that offer their services is available on the Website. Persons interested may download the list as it may assist in networking etc. See [www.ipet.co.za](http://www.ipet.co.za)

We invite readers to air their views on important matters by sending a letter to the editor. Kindly note that content may be edited and shortened and that the publisher reserves the right not to publish if it deems that publication is not in the best interests of the associations etc (T&C's apply).

Editor; Viv Nel

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*"Don't reinvent the wheel, just realign it."*

**Anthony D'Angelo**

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## 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 [www.engineeringchamber.yolasite.com](http://www.engineeringchamber.yolasite.com)

Members are reminded that they are entitled to claim of 10 % to 15% discount on the fee from the provider, as this is part of our assessment agreement with them. This applies only to the courses advertised on our Website.

*The latest addition to the list is*

***Contractual Landscape for Built Environment Professionals a one day course for 1 credit Course validation number IPET 2017/01 Contact 6CDS (Johan) at 082 737 5532.***

***E Mail Johan@6cds.co.za***

## **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.

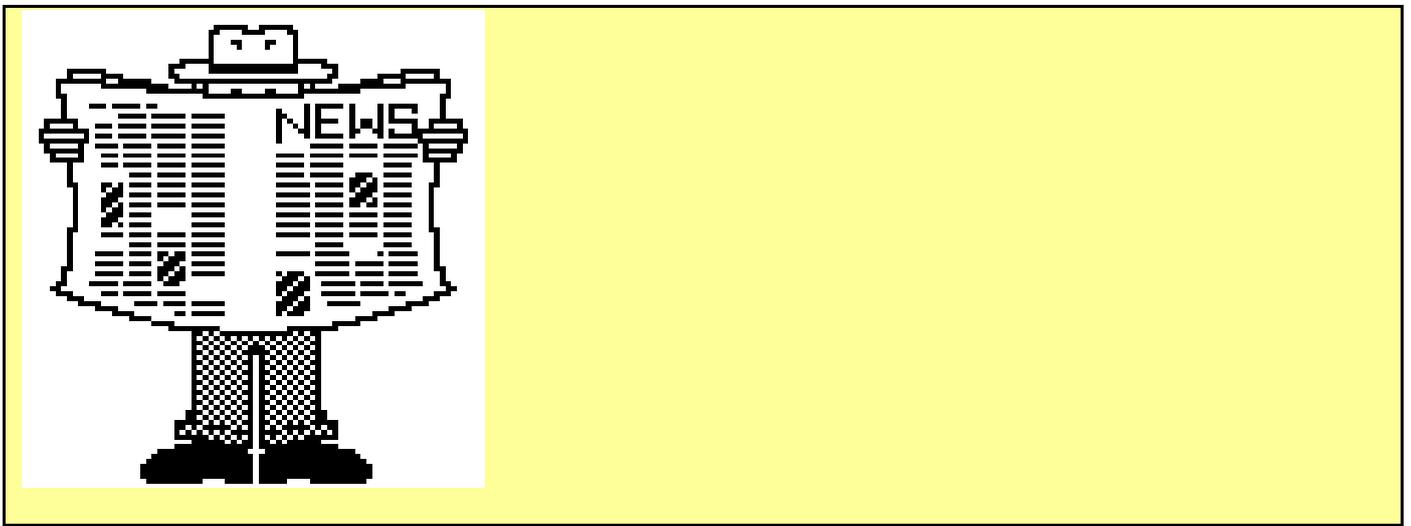
*Ed.*

## **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.*



# **Polar ice hits record lows**

Polar ice cover on both sides of the world has hit record lows. The smallest in 38 years of satellite monitoring, 2017 saw 37,000 square miles less polar ice compared to the last record low in 2015.

# **0**

The number of life insurance policies available to Apollo 11's astronauts. Instead, they autographed photos which their family would have been able to auction off in the event of their death(s).

# Only 1,419 of the 4,256 satellites orbiting the planet are operational.

# **18** The percentage of Americans who can drive manual car (not automatic).

# We cannot co-create success by hurling chairs and water bottles at each other. We all know that when we don't listen to each other, our universities will burn.

*Jay Naidoo.*

# **Wind Energy vs. Nuclear.**

The global race of wind and solar power against nuclear energy as alternatives to fossil fuels entered a new phase in 2015 when total wind power generation capacity reached 432.42 gigawatts (GW) with 63.01 GW added last year. These numbers are tracked and were reported by the Global Wind Energy Council. Global nuclear power generation stood at 382.55 GW according to the World Nuclear Association.

China leads the world in wind energy with a total capacity of 145.10 GW, followed by the United States with 74.47 GW, India at 25.09 GW, and Spain at 23.03 GW.

However it must be noted that Wind Leads in Capacity, Not Output

Note that the 382.55 GW output for nuclear power is the net generation capacity. For wind turbines, the capacity does not equal output because the wind is intermittent and the plants do not produce 100% energy, 100% of the time. For the 432.4 GW of wind energy capacity installed, the output is estimated to be in the neighbourhood of 20% or 86.48 GW.

Clearly, wind power is catching up to nuclear, but there are additional issues like the fact that the lifetime of a nuclear plant is 60 years while that of current wind farms is around 20 years.

*Source [www.gereports.com](http://www.gereports.com)*

## # **China solar power capacity almost doubled in 2016**

In the last decade, the Chinese economy has been one of the most fast-growing ones around the world. The country's energy needs were mainly covered by coal burning, resulting in heavy air pollution. The government took notice and began to find ways to combat pollution, principally by investing in renewables like wind and solar power. The results are impressive: in 2016, China installed more solar panels than any other nation, becoming the world's biggest producer of solar energy by capacity, according to the National Energy Administration (NEA). The country almost doubled its solar energy capacity in just one year! 34.54 GW were installed, reaching a total of 77.42 GW installed solar capacity.

No matter how impressive that sounds, however, the generated energy from the solar plants last year - 66.2 billion kWh-, accounts for only 1% of the country's total power generation.

*Source: Reuters and others*

# **The aviation industry's all accident rate**, measured in accidents per one-million flights, improved to 1.61 in 2016, from 1.79 in 2015.

The latest data published by the International Air Transport Association (Iata), further showed that the major jet accident rate, measured in hull losses per one-million flights, was 0.39 in 2016, which was equivalent to one major accident for every 2.56-million flights.

This was slightly worse than the rate of 0.32 achieved in 2015, as well as the five-year rate of 0.36.

There were ten fatal accidents involving a total of 268 fatalities in 2016, compared with an average of 13.4 fatal accidents and 371 fatalities per year in the previous five-year period.

Some 3.8-billion travellers flew safely on 40.4-million flights last year. The number of total accidents, fatal accidents and fatalities all declined versus the five-year average, showing that aviation continues to become safer according to Iata.

In 2016, sub-Saharan Africa had its best performance of the last decade, with zero passenger fatalities and zero jet hull losses.

The all accident rate for the region was 2.30 per one-million departures, compared with an average of 9.73 per one-million departures a year for the previous five years.

## # **Electric Bus re-charge cycle will take just three to six minutes!**

Recently, Ville de Luxembourg inaugurated two fast-chargers for the electric hybrid buses at the city's central station. The city owns 5 such buses made by Volvo, which will be fully charged in three to six minutes, during the layover times at the end point of the bus route. Their current charging power is 150kW, but in case bigger future batteries require more power, charging can easily be increased to 300kW or 450kW, as the charger's modular design allows for this.

Luxembourg City aims to cut overall carbon dioxide emissions by at least 20% by 2020, investing in sustainable transport. The chargers were installed by ABB, which has sold approximately 5,000 fast chargers around the world for passenger cars since 2010

# **Unit 2 of Koeberg Power station** recently achieved 485 days of continuous operation since its last outage. CEO M Koko said this proves how reliable nuclear power is.

## # **Ants.**

Millions of years before humans put seeds into the ground, ants were cultivating crops in subterranean tunnels. Scientists believe that the fungal crops have been cultivated for so long and so meticulously that

they can no longer survive outside of their agricultural "tunnel". Ants, in other words, have genetically modified their farms. In addition, no anti-GMO ant lobby groups were discovered during the study!

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## **No 7. New Members.**

**We welcome the following new members.**

<b>Members Name</b>	<b>Initials</b>	<b>Members Number</b>
Adams	ED	3553
Babu	B	3544
Dantuma	P	3554
Esterhuizen	W	3545
Jardine	MA	3552
Maposa	M	3551
Mashaba	L	3543
Mokwatlo	JS	3550
Mothebe	NA	3541
Ncube	BE	3547
Nomdoe	EJ	3542
Sebapo	Kh	3548
Shangase	NN	3549
Stolz	AHG	3546

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## **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.

Alberts FS  
Badenhorst BG  
Bouwer WC  
Brussow O  
Coetzee DJJ  
Dlamini NN  
Fernandes NR  
Kambadkone RR  
Mouton JvS  
Mthomeni RD  
Mutasah HW  
Nakoo J  
Rockstion BA  
Sillman CR

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## **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.

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	Mano RA
Kannemeyer L	Nkhoesa M
Kwinika KP	Phalane MH
Laher R	Pardeshi NV
Machabe MA	Shilowa HK
Makuba S	Sibisi JC
Maladzhi RW	Steyn A

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## **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](http://www.ipet.co.za)

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## **No 11. 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](mailto:engineer@netactive.co.za)

## **Number 12**

### **E. & O. E.**

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## **No 32 Disclaimer.**

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**PLEASE SCROLL DOWN TO NEXT PAGE!**

No 14. The Institute of Professional Engineering Technologists  
P O Box 1824  
Randburg  
2125  
Tel / Fax 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 Spornet, Transnet, Eskom and Gov (Government) are usually blocked and not by us!*

E Mails to some Consulting firms are also blocked at the receivers end.

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 for co-operation.**

<b>Last name</b>		<b>Initials</b>	
<b>First Names</b>			
<b>Your Preferred Postal address</b>		<b>Postal code</b>	
<b>Work Postal address</b>		<b>Postal code</b>	
<b>Name of Employer / Company</b>			
<b>Your or your Company's main field of engineering</b>			
<b>Work Tel (include area codes for all numbers)</b>		<b>Work Fax</b>	
<b>Home Tel</b>		<b>Home Fax</b>	
<b>Cell No</b>		<b>E Mail (Large font please) This is IMPORTANT.</b>	
<b>Membership Number</b>			
<b>Engineering Council of SA Registration Number (If applicable)</b>			
<b>ID Number</b>			
<b>Race (For statistical purposes only)</b>	Asian (Indian etc) = A Coloured = C	Black = B White = W	<b>Note; The Government often requests this info from us.</b>

