

Editorial

The Agulhas Current A potentially viable alternative energy source?

The Agulhas Current flows along the east coast of Southern Africa and is one of the strongest ocean currents in the Southern Hemisphere.

On average, the Agulhas Current transports 77 million cubic metres of water southwestwards every second.

This powerful current is being investigated as a potentially viable alternative energy source for South Africa.

Globally, resource characterisation studies have been done in other major ocean currents including the Gulf Stream off the coast of the United States of America and the Kuroshio Current, which flows offshore of Japan and Taiwan. Whilst these currents share many similarities with the Agulhas Current, each current also has its own unique characteristics.

Strength and direction of flow are important factors to consider, with the northern sector of the Agulhas Current considered to be the most stable. Large eddies, 300–400 km in diameter, form in the Mozambique Channel and move towards the start of the Agulhas Current.

The interaction of these eddies with the Agulhas Current can cause the current to meander and move offshore irregularly, every 50 to 150 days. These meanders, known as *Natal Pulses* present a unique challenge for energy generation; and improved data sets are critical to correctly predicting the energy potential of the Agulhas Current and informing the relevant stakeholders.

One area of fast (an average speed of 1.59m/sec.) and relatively stable flow in the Agulhas Current has been identified, approximately 100Km from the coast of East London.

Using satellite data it is possible to predict, with fairly good accuracy, the occurrence of a Natal Pulse approximately two weeks before it arrives at the proposed site. This would enable grid planners to prepare for periods of no power generation with sufficient warning and to plan for the utilisation of other energy sources.

This location for energy extraction is situated well with regards to avoiding global shipping routes, marine protected areas and important fishing regions, whilst still maintaining a close proximity to the coastal substations. One major challenge of harnessing the power of the Agulhas Current would be mooring turbines in water depths greater than 250 m. It has, however been found that a turbine array in the Agulhas Current compares well with other alternative energy sources and could provide South Africa with significant contribution to the electricity grid.

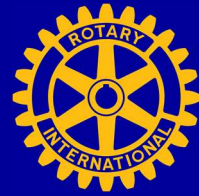
Whilst there has been a huge amount of development in the renewable and alternative energy sector over the past three decades, offshore ocean technology remains the least developed. Due to the vastness of the resource, there are many aspects of the ocean still to be investigated and understood.

Further improved regional ocean models and data assimilation efforts are critical to reducing the barrier of entry of this resource into the offshore renewable energy market in South Africa.

By Laura Braby, SAEON Egagasini Node

WYNPRESS

The Rotary Club of
Wynberg



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June in Rotary

Rotary Fellowships month

**Wynberg Rotary meet every Thursday,
6 for 6.30pm,
Palm House, Wynberg.**

For more information about our club, like us
on Facebook or visit our website:

Wynbergrotary.org.za



BE THE INSPIRATION

Minutes: 20th June, 2019

Compiled by Barry Cleveland

Attendance

14 members present (61%)

Guests: Kim, Renecia, Lindokuhle and Thobeka

Fellowship

Marlene's birthday on 29th June.

From the President's chair

A Warm Wynberg Welcome to all, and especially our guests from Amoyo Performing Arts Foundation. Will check with Barrington House whether a memorial service could be held there for Don.

MOT: Dennis, Stacy and Stephen have conducted an assessment of impact on the community before handing the report over to Odd Henning for an application for a Global Grant.

Adventure into Citizenship: WRC sponsored two learners.

August Quiz Night: Prizes will be welcome.

Extra 'Baby Packs' have been handed over for distribution to worthy recipients.

Slots

Rob announced that club subs will increase from R1100 to R1200 – due in July, please.

Members' Moments

Dave will be attending a festival in Grahamstown next week, where his daughter, Megan will be playing saxophone in a jazz band.

Guests

Amoyo ('Spirit of Appreciation') cofounded by Kim Worrall in 2015, is a non-profit educational organisation using performing arts as a platform to engage with at-risk youth. Young beneficiaries from Hout Bay's impoverished communities are taught to acquire core values and communication skills, leading to stable, meaningful employment. The long term goal is for their participants to pass matric and to continue their journey into tertiary education or employment with a strong toolkit of core values, work ethic, the ability to communicate with confidence and a heightened EQ needed to excel in all environments. Amoyo places great importance on developing self-esteem and the ability to feel grateful for their journey – this latter facet can be difficult to instil. Since 2015, Amoyo has successfully enrolled and trained over 250 young people between 5 and 19 years. In 2017 Amoyo won a ministerial award from the Dept. of Social Development for Excellence in Youth Development. During the period 2018 – 2020 they anticipate training another 300 young people; all without any government funding. There are 32 classes per week, covering Speech and Drama, Ballet, Rhythm and Music, Family Support and Social Welfare. Students are taken to the theatre, and encouraged to dance and perform to the public – in concerts and to corporate organisations on request – which helps to generate revenue. We were then treated to a most entertaining dance routine by students, Renecia, Lindokuhle and Thobeka.

Swindle

With R1200 in the kitty, Kim drew Stephanie's name, but she could only find the 9 of hearts (Ah shame!).

String won the attendance prize of R20.

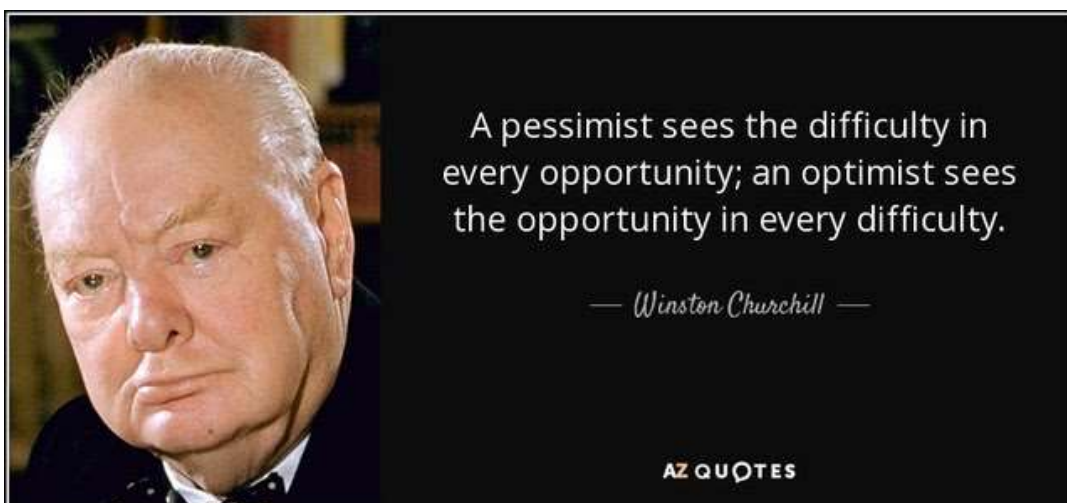
President's 'Rotarian of the Week'

Rob won a packet of seeds (to grow his own pot plant) for managing to juggle the next year's subs into something divisible by 12. He received a standing ovation for this extraordinary feat...but he is an accountant.

Duty Roster	June	July		
	27	4	11	18
Sergeant	Cleveland	Jackson	Overbosch	Todd
Wynpress Editorial	Bird	Dietrich	Cleveland	Edwards
Wynpress Minutes	Maunder	Thomas	Edwards	Cleveland
Door Duty	Dietrich	Maunder	Jackson	O'Driscoll
Grace	Todd	Thomas	White	Barnard
Loyal Toast	Smith	Todd	Thomas	White
International Toast	Van Niekerk K	Bayes	Bird	Cleveland
Speaker Intro and Thanks				
Entertainment for the month		Overbosch, O'Driscoll Edwards, Schreiber		

Dates To Diarise

27 June	Last month of Hugh's world cruise: Maldives, Luxor, Valley of the Kings, Petra, Suez Canal, Jerusalem and Malta
4 July	TBA
11 July	'67 Blankets' will talk about their work
18 July	TBA
25 July	James Edwards will tell us all about 'Geo-cacheing'



Tailpiece



A REDNECK LOVE POEM

SUSIE LEE DONE FELL IN LOVE,
SHE PLANNED TO MARRY JOE.
SHE WAS SO HAPPY 'BOUT IT ALL,
SHE TOLD HER PAPPY SO.

PAPPY TOLD HER, SUSIE GAL,
YOU'LL HAVE TO FIND ANOTHER.
I'D JUST AS SOON YO' MA DON'T KNOW,
BUT JOE IS YO' HALF BROTHER.

SO SUSIE PUT ASIDE HER JOE
AND PLANNED TO MARRY WILL.
BUT AFTER TELLING PAPPY THIS,
HE SAID, 'THERE'S TROUBLE STILL!

YOU CAN'T MARRY WILL, MY GAL,
AND PLEASE DON'T TELL YO' MOTHER.
BUT WILL AND JOE, AND SEVERAL MO'
I KNOW IS YO' HALF BROTHER.

BUT MAMA KNEW AND SAID, MY CHILD,
JUST DO WHAT MAKES YO' HAPPY.

MARRY WILL OR MARRY JOE;
YOU AIN'T NO KIN TO PAPPY.

(Kinda brings a tear to yer eye, don't it!)