



The Rotary Club of Wynberg

Wynpress



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## EDITORIAL

### **Quantum Computers are coming – the world may not be ready!**

Quantum mechanics, Carl Sagan once observed, is so strange that "common sense is almost useless in approaching it." Scientists still don't understand exactly why matter behaves as it does at the quantum level. Yet they're getting better at exploiting its peculiar dynamics -- in ways that may soon upend the technology business.

One of the most interesting applications is in computing. In theory, quantum computers could take advantage of odd subatomic interactions to solve certain problems far faster than a conventional machine could. Although a full-scale quantum computer is still years off, scientists have lately made a lot of progress on the materials, designs and methods needed to make one.

And that could have some striking benefits. Quantum computers could simulate how atoms and molecules behave, to the great advantage of chemists and drug designers. They could solve optimization problems -- say, how to efficiently route airplane traffic -- far faster than current technology can. They could speed advances in artificial intelligence, improve sensors, and lead to the design of stronger and lighter industrial materials.

Unsurprisingly, then, investment in the field is surging. IBM, Microsoft and Google are all building quantum research labs. Start-ups are gearing up. Banks are very interested indeed. Governments see applications for space exploration, medical research and intelligence-gathering. America's National Security Agency, in fact, has been quietly trying to build a quantum computer for years, in the hope that it would make an unstoppable code-breaker.

And that suggests a looming problem. To simplify it a bit, the cryptographic tools commonly used to protect information online rely on very hard maths problems, such as factoring large integers, which normal computers can't solve in a reasonable time frame. Quantum computers, though, could probably make quick work of such equations.

As a result, they could undermine the security of everything from mobile phones to e-commerce to cloud computing. Within two decades, by some estimates, quantum computers may be able to break all public-key encryption now in use. "The impact on the world economy," says the non-profit Cloud Security Alliance, "could be devastating".

*Submitted by Barry Cleveland*

# Minutes

## 8 September 2016

	Compiled by Lina Howard
Attendance	17 members present
Visitors	Wendy Vermeulen (Guest Speaker), Kerry, Jess, Nicole (Rotaract), Dottie from USA
Fellowship	None announced
From the President	Welcomed all visitors and especially Dottie who returns to our shores Reminders: Haugaland visit 14 <sup>th</sup> Oct – 27Oct Steenberg Rotoract 27 <sup>th</sup> Oct
Slots	KERRY- 1. Asking for help at Uncle Pauls (60 <sup>th</sup> Year). They need a 'NODDY' please. New Jobs: Checking tickets 2. Rotaract have chartered 2 new Early Interact clubs BIFFY- 1. Wine Festival on 7 Oct. 15 tickets reserved at R200 each. Only 2 remaining 2. RFHD – less than a month away: 4 <sup>th</sup> -6 <sup>th</sup> Oct – please respond JUSTIN- 1. 17 <sup>th</sup> September – Interact Workshop – help required 2. Quiz on 29 <sup>th</sup> Sept – 18.30 – prizes needed. Respond to Ruth DAVE- 16 <sup>th</sup> Sept – preparing hamburgers for Interact workshop + Braai at Dave's house 18.30- bring own meat & drinks.
Guest Speaker	Wendy Vermeulen spoke to us about a wonderful project which assists those who have intellectual disabilities – a group called Brownies and Downies. This all began in the Netherlands 6 years ago. There is a training programme to teach them how to work in various positions in a restaurant. Work opportunities are scarce for them so Wendy tries to get positions for them at Spar. Wendy's obvious love for her job and her dedication to those in her training group was inspiring. NB The club is invited to a brunch at Brownies and Downies restaurant, 2 Long Street at 10.00 on Saturday 29 October. Please diarise now and a list be circulated closer to the time – including a very tempting menu!
Swindle	Sadly no swindle today as String on vacation and Toddy busy

Start with Rotary  
and good things happen.



Rotary. Humanity in motion.

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# Duty Roster

	September			October
	<b>15</b>	<b>22</b>	<b>29</b>	<b>6 Business Mtg</b>
<b>Sergeant</b>	G Todd	Barnard	QUIZZ	Cleveland
<b>Wynpress Editorial</b>	Danckwerts	Dessington		Dietrich
<b>Wynpress Minutes</b>	K v Niekerk	Maunder		Smith
<b>Door Duty</b>	Justin	Howard		Murphy
<b>Grace</b>	Howard	Cleveland	SOCIAL	Danckwerts
<b>Loyal Toast</b>	Lidgley	Murphy		Bayes
<b>International Toast</b>	Cleveland	Gowdy		Howard
<b>Speaker Intro</b>	Are	Schreiber		N/A
<b>Speaker Thanks</b>	Lidgley	Overbosch		N/A
<b>Entertainment for the month</b>	Dessington, Gowdy, Howard, Hovstad			Maunder Overbosch Schreiber M Smith, Todd

# Going Forward

## Dates To Diarise

Sept 15

Brian Ingpen, founder and principal of Lawhill Maritime Centre, Simonstown and weekly columnist on nautical matters, will talk on the work of the centre.

Sept 17

Interact Workshop at Sachs

Sept 22

Lorenzo Davids, CEO of community Chest and past member of the club, will speak on the Chest's 87 year history of empowering the poor.

Sept 29

Quiz evening. Details in Slots (above)

Oct 4-6

Rotary Family Health Day

Oct 5

Top Cops Awards at Victoria Junction Hotel. 18.30

Oct 7

Constantia RC Wine festival (Biffy – Tickets)

Oct 14

Haugaland students and teachers + principals from 7 NLC schools

Oct 20

Muavia Gallie of Education Moving Up (a previous presenter to the club, concerning the many problems facing the SA education system), will highlight the most urgent issues requiring intervention in our schools, the way in which their intervention occurs and the results they achieve.

SAVE THE DATE **15 SEPTEMBER**

# THE BOOK LAUNCH

BY CHRIZAAN CROUS

COLOURING-IN BOOK FOR PEOPLE WITH DOWN SYNDROME

Thursday, **15 September**

**Brownies & Downies**

No 2 Long Street, Cape Town

Join us for  
**HIGH TEA**

**R200**  
per person

**16h00**  
**19h00**

RSVP: [suna.ester.snyman@gmail.com](mailto:suna.ester.snyman@gmail.com)

PROCEEDS GOING TOWARDS  
PEOPLE WITH DOWN SYNDROME

**talent**  
FOR CHANGE  
Suna Snyman



Brownies & downies



## Date Reminders

Rotary



Rotary  
Quiz  
Night

**EARTH FAIR MARKET  
TOKAI**

**29 SEPTEMBER 2016**



**ROTARY  
SERVING  
HUMANITY**

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