



**Christmas In July**



**Editorial**

**CONCRETE BUILDINGS THAT HEAL THEMSELVES  
from *Cosmos Magazine***

A living concrete that self-repairs any cracks could change the way we maintain our homes and cities. Hendrik Jonkers, a microbiologist at Delft University in the Netherlands is set to revolutionise the building industry by placing spores of mineral-excreting bacteria in the concrete mix.

In modern cities concrete is everywhere, from high-rise housing to tunnels and bridges. In ancient Rome it was used to construct the Pantheon and Colosseum, massive structures that are still standing today. But both are less than 50 metres tall, whereas modern skyscrapers can be hundreds of metres high. This is possible because in modern buildings, liquid concrete is poured around a steel scaffold. The steel increases a structure's tensile strength, making it less prone to breaking. Eventually, however, the steel can become a weakness.

Concrete is slightly porous and after 20 or 30 years water can begin to seep into it, carrying corrosives such as sea salt that can react with the steel inside the concrete. As steel starts to rust, it expands and pushes on the concrete, eventually forming cracks. Fixing the damage with plaster or steel plates is costly: about \$6.5 billion is spent on concrete renovations in the EU each year.

**WYNPRESS**

The Rotary Club of  
Wynberg



Vol: 69 No: 3  
3 August 2017

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Keela van Niekerk, Hugh  
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**August Rotary Theme**

**Membership and New Club  
Development 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](http://Wynbergrotary.org.za)**

To create his now patented “bio-concrete” Jonkers spikes normal wet concrete with an equal ratio of his bacterial spores and their food, calcium lactate. This mixture makes up 1% of the final concrete mix. As the concrete dries, the spores are entombed in the slab. The spores can lie dormant for at least 200 years until they receive a wake-up call in the form of air and water entering a crack in the material. The activated spores then start munching on the food around them and excrete carbonate ions, which react with calcium in the concrete to produce limestone mortar. Once the crack is filled the bacteria are stifled by their own waste and die.



Cracked bio-concrete before healing (left) and after healing (right)

Jonkers’ bacteria take three weeks to seal cracks in concrete. The bacteria can only fill fine cracks – up to 0.8mm wide – but an early repair stops them from getting bigger. The bacteria can heal existing concrete structures too, by way of a spray-on formulation. The sprayed-on microbes also eat, excrete and seal shut any fine cracks in the structure.

Bio-concrete is 50% more expensive than conventional concrete, but Jonkers is confident the long-term savings will outweigh the initial cost. For underground structures such as basements, which are more exposed to moisture, he has calculated the bio-concrete would pay for itself within two years of the first cracks appearing.

The technology could significantly extend a building’s life, but it’s still a non-permanent solution – it will fix the problem for a while but not forever.

*Submitted by Barry Cleveland.*

# Minutes

27 July 2017

Compiled by Hugh Maunder

<b>Attendance</b>	16 members present (With makeups: 71%)
<b>Visitors</b>	Stephen Bredenkamp and Ann Barr (Speaker)
<b>Fellowship/ Members Moments</b>	Members noted that Don was not at all well and he would welcome a phone call.  It was agreed to stop giving the option of vegetables with the weekly dinner at Palm House. In future, the menu would be varied from week to week. Step Student Liam would be at a loose end from 14 to 18 August and Bev requested that anyone who could help should contact her.
<b>From the President</b>	N/A
<b>Slots</b>	<ol style="list-style-type: none"> <li>1. Biffy is looking for a club member to organise the duty roster, while she is away, for the Rotary Family Health Day (RFHD) on the 3<sup>rd</sup>, 4<sup>th</sup> &amp; 5<sup>th</sup> October.</li> <li>2. Justin asked members to consider forming teams, for the quiz night, and to help find more prizes.</li> </ol>
<b>Speaker</b>	Ann Barr, a member of Lions Club of Kirstenbosch, told us about the 'Cape Town Big Band Jazz Festival' which her club had been organising for over 20 years. The next one would be at the Baxter Theatre at the end of May 2018. It will be a great show with 23 bands, which would include some from the UK. Justin both introduced Ann and thanked her.
<b>President's Sweetie Pie</b>	In the absence of Rob, Karen took the chair, but could not give any Sweetie Pies awards.
<b>Swindle</b>	Are made the draw but found the 9 diamonds elusive. The members expressed their usual disappointment. Karen won R20 for the attendance prize.

Duty Roster	August			
	3 (Business)	10 NB AT PERIVALE	17	24
Sergeant	Jackson	Overbosch	Todd	Barnard
Wynpress Editorial	Danckwerts	Dietrich	Gowdy	Hovstad
Wynpress Minutes	Howard	Cleveland	van Niekerk K	Howard
Door Duty	Schonegevel J	Schreiber	Smith	Thomas

Grace	Barnard	Bird	Cleveland	Danckwerts
Loyal Toast	Maunder	Overbosch	Schonegevel J	Schonegevel R
International Toast	Munday	Gowdy	Overbosch	Schonegevel J
Speaker Intro and Thanks	N/A	N/A	Schreiber	Smith
Entertainment for the month	Cleveland, Dietrich Munday, J Schonegevel, Jackson			

## Dates To Diarise

<b>3 August</b>	Business Meeting
<b>10 August</b>	<i>(NB. Not at Palms)</i> Official visit by the District Governor, Lynette Stassen at <b>Perivale Junior School, Grassy Park.</b>
<b>17 August</b>	Jane Coombe & Shelley O'Connell from Wordworks, which aims to promote literacy in schools in Lotus River and Retreat areas, and the impact the program has had.
<b>24 August</b>	David Gore from the College of Magic will discuss the work done by the college in developing young magicians, and will share some success stories from local communities.
<b>1 September (NB Friday)</b>	A Curry Evening at Monique's home. Details TBA
<b>7 September</b>	Lufefe Nomjana, the Spinach King of Khayelitsha, will tell us about his one-man enterprise which he started in 2011 with a capital outlay of R40 and which today is a thriving business in the Khayelitsha Mall
<b>14 September</b>	Dr Jane Battersby, UCT lecturer and researcher, will speak on Urban Food Security
<b>19 September</b>	RI President Ian Riseley and Juliet Riseley visit to D9350 - Cocktail Event at Kelvin Grove, Newlands (Invitation to all)

## Tail Piece

### **My Travels**

I have been in many places, but I've never been in Cahoots. Apparently, you can't go alone. You have to be in Cahoots with someone.

I've also never been in Cognito. I hear no one recognizes you there.

I have, however, been in Sane. They don't have an airport. You have to be driven there. I have made several trips there thanks to my children, friends, family and work.

I would like to go to Conclusions, but you have to jump, and I'm not too much on physical activity anymore.

I have also been in Doubt. That is a sad place to go, and I try not to visit there too often.

I've been in Flexible, but only when it was very important to stand firm.

Sometimes I'm in Capable. I go there more often as I'm getting older.

One of my favourite places to be is in Suspense! It really gets the adrenalin flowing and pumps up the old heart! At my age I need all the stimuli I can get!

I may have been in Continent, but I don't remember what country I was in. It's an age thing. They tell me it is very wet and damp there.



**ROTARY:  
MAKING A  
DIFFERENCE**

**By request, here's PP John Vivian's "Club Carol" sung solo to the tune of O Tannenbaum by PP Graham Todd at the 'Christmas in July' Rotary meeting on 20 July. However future performances will be by massed choirs, supported by a full symphony orchestra under the direction of a world renowned conductor. Tickets at prices running to four figures will be by allocation only.**

○ Rotary, my Rotary  
This is our club in Wynberg  
We may not have the greatest board  
But they're the best we could afford  
○ Rotary, my Rotary  
We pick them well in Wynberg

○ Rotary, my Rotary  
It's Murphy's Law in Wynberg  
But if he's bad and gives us pain  
He knows that we will pull his chain  
○ Rotary, my Rotary  
We are well led in Wynberg

○ Rotary, my Rotary  
We're all employed in Wynberg  
Now Alan's past, he's history  
We've stuck him in Community.  
○ Rotary, my Rotary  
We never waste in Wynberg

○ Rotary, my Rotary  
We plan ahead in Wynberg  
We have the leader we deserve  
And we've got Biffy in reserve  
○ Rotary, my Rotary  
We're well prepared in Wynberg.

○ Rotary, my Rotary  
We've lots of cash in Wynberg  
We get it from that Schreiber chap  
Provided he's not singing Rap  
○ Rotary, my Rotary  
He is our Scrooge in Wynberg

○ Rotary, my Rotary  
We've Partners here in Wynberg  
Now Candice heads up our youth team  
She handles young ones like a dream  
○ Rotary, my Rotary  
We don't grow old in Wynberg

○ Rotary, my Rotary  
We've records kept in Wynberg  
Our Keeler wields the mighty pen  
And she takes notes (well, now and then)  
○ Rotary, my Rotary  
Our Sweetie Pie in Wynberg

○ Rotary, my Rotary  
We've music men in Wynberg  
Its Barry's turn to have a bash  
And make the Proms earn lots of cash  
○ Rotary, my Rotary  
Were all in tune in Wynberg

○ Rotary, my Rotary  
We've Todd and String in Wynberg  
And though the swindle isn't hard  
Just pay five Rand and pick a card  
○ Rotary, my Rotary  
You'll never win in Wynberg

○ Rotary, my Rotary  
Were full of fun in Wynberg  
Our Fellowship is hot with zest  
We've even changed the Four Way Test.  
○ Rotary, my Rotary  
We go Five Ways in Wynberg

○ Rotary, my Rotary  
The greatest Club is Wynberg  
And DGs all must be impressed  
We're streets ahead of all the rest  
○ Rotary, my Rotary  
We are the best, we're Wynberg