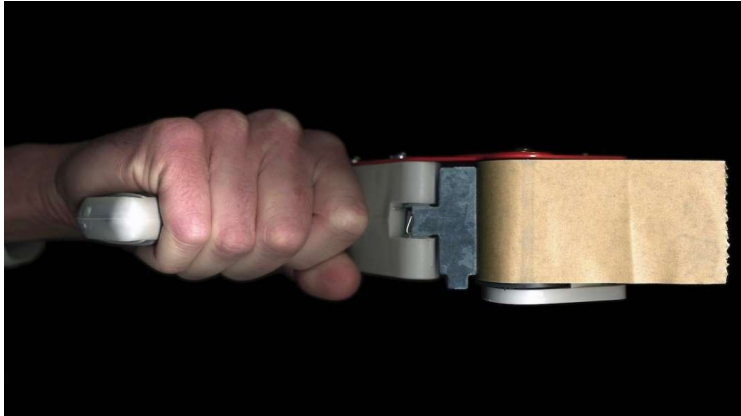


## Editorial

### Revealed: The Physics of Sticky Tape It turns out to be hellishly complicated stuff



Sticky tape is ubiquitous, but the physics that govern it is poorly understood.

Researchers in France have revealed the microscopic secrets of the physics of sticky tape.

“It’s a beautiful system, I wouldn’t have believed that you have such a rich dynamic,” says Stéphane Santucci from the École Normale Supérieure, lead author of a [paper](#) published in the journal *Physical Review Letters*.

Santucci became fascinated by sticky tape while moving house. He noticed that as the tape is peeled away from the roll, it does not come smoothly, but sticks for a moment and then progresses jerkily, sticking again a centimetre or two further along.

Santucci set PhD student Vincent de Zotti to work unrolling tape at an even speed in front of a super high-speed camera, filming at up to a million frames per second.

To their surprise, within the centimetre-scale stick-slip pattern there was a smaller scale version of the same behaviour going on: each slip was made up of a series of jerky micro-slips, each less than 0.2mm long, separated by sticky pauses of around a tenth of a millisecond.

And in each micro slip event the tape did not lift evenly. One edge lifted first, initiating a pulse of lifting motion that travelled across the tape to the other edge, at times at speeds of nearly a Km/sec.

It was already known that the larger scale slips were related to the stretchiness of the tape, but to model the behaviour of the micro-slips the team had to include the energy required to bend it. During each micro-stick the energy went into deforming the tape, and in each micro-slip it was released as kinetic energy.

The peeling is further complicated by the glue, which, although apparently pliable, behaves like a brittle glassy solid when tape is peeled at high speed. The cameras showed that the tape left behind deposits of glue at each sticking point, which can affect the stickiness of the tape as well as its transparency.

Santucci and his colleagues are now working towards ways to stabilise the dynamics, which will be a welcome boon for industrial situations where, for example, the screech of tape peeling at high speeds can reach deafening noise levels.

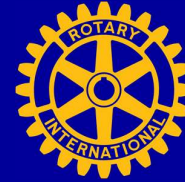
The answers await a more complete understanding of the dynamics, however. The simplistic solutions that the model suggests, such as peeling the tape much more slowly, or using stiffer tape, could increase costs and decrease efficiency.

“To really find a way to control and tame the instability, we are not there yet,” Santucci says.

*From Cosmos magazine*

## WYNPRESS

The Rotary Club of  
Wynberg



Vol: 72 No. 1  
2<sup>nd</sup> July 2020

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Barry Cleveland, Hugh Maunder,  
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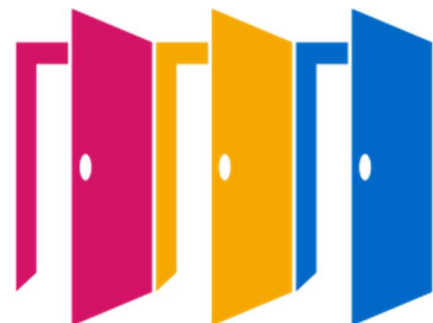
### July in Rotary

New Leadership 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)



**Rotary Opens Opportunities**

# Minutes: 25 June 2020

Compiled by Hugh Maunder

## 'Virtual' Attendance

16 members present  
Guests: Phillip and James (and Norma for a while)

## Fellowship

Marlene's birthday on 29<sup>th</sup> June

## From the President's chair

**President Keela** advised that it was her last meeting after fourteen months as President. She had thoroughly enjoyed it and thanked the members for all the support they had given her. She would give a rundown of the activities for that year at the virtual induction on 2<sup>nd</sup> July.  
She congratulated Barry and his editorial team for winning the District Award 2020 for "The Best Club Bulletin".

## Members' moments

**Keela** had withdrawn her resignation from the bank because the virus had prevented her and Stephen from leaving for Ireland. She has now been given a promotion and even greater responsibility by the bank.  
**Hugh** had a boundary wall fall into his swimming pool and was spending most of his time trying to get the bricks out.

## General Knowledge Quiz

**Dave** tested us with a two-part quiz. The first 10 questions were based on general knowledge of The Republic of South Africa. The second was the originators of well-known quotes. **Karen** was the overall winner.

## Swindle

The Ace of Hearts eluded Keela, who drew the 5 of diamonds (Ah! Shame).  
Valda did the draw for the attendance prize of R20 and Graham won (Ah! Swindle)

## The Man In The Glass

When you get what you want in your struggle for self,  
And the world makes you king for a day,  
Then go to the mirror and look at yourself,  
And see what that man has to say.  
For it isn't a man's father, mother or wife,  
Whose judgement upon him must pass,  
The fellow whose verdict counts most in life,  
Is the man staring back from the glass.  
He's the fellow to please, never mind all the rest,  
For he's with you clear to the end,  
And you've passed your most dangerous, difficult test,  
If the man in the glass is your friend,  
You can fool the whole world down the pathway of years,  
And get pats on the back as you pass,  
But the final reward will be heartache and tears,  
If you've cheated the man in the glass.

Peter Dale Windrow Sr

american

## Dates To Diarise: Zoom Meetings

<b>2 July Thursday</b>	Virtual Presidential Induction 18.00: Justin Schonegevel
<b>9 July</b>	New Rotary year: Exciting things TBA
<b>16 July</b>	Ditto.....
<b>23 July</b>	Ditto.....

July					
<b>Duty Roster</b>	2	9	16	23	30
	Virtual Presidential Induction				
Sergeant	Bayes	Cleveland	Jackson	Murphy	Schreiber
Wynpress editorial	Murphy	O'Driscoll	Overbosch	Schonegevel J	Schreiber
Minutes	Cleveland	Edwards	Maunder	Cleveland	Edwards
Loyal toast	Van Niekerk K	Van Niekerk S	White	Barnard	Bayes
International toast	Dietrich	Edwards	Gowdy	Jackson	Klotz-Gleave

### WRC BOARD 2020/21

<b>President</b>	Justin Schonegevel	083 6278599	<a href="mailto:schjus008@gmail.com">schjus008@gmail.com</a>
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<b>Youth Services Chair</b>	Candice Klotz-Gleave	083 5038222	<a href="mailto:candice@uitsig.co.za">candice@uitsig.co.za</a>
<b>Foundation Chair</b>	Armien White	083 3573708	<a href="mailto:armienwhite19@gmail.com">armienwhite19@gmail.com</a>

# Tailpieces (for the ladies, as promised – Ed)



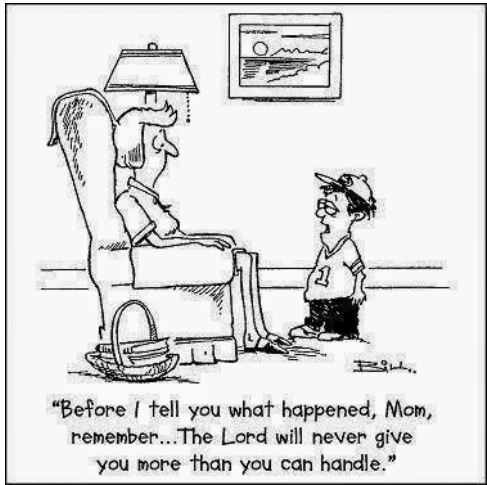
The first testicular guard, the "Cup," was used in Hockey in 1874 and the first helmet was used in 1974.

That means it only took 100 years for men to realize that their brain is also important.

Ladies.....Quit Laughing.

If at first you don't succeed.. try doing it the way your wife told you •


Never ask a woman who is eating ice cream straight from the carton how she's doing



Do NOT Wake Up Mom!  
There are at least 7 animals that eat their young. Your Mom may be 1 of them!

SOME DAYS YOU EAT SALADS AND GO TO THE GYM,  
SOME DAYS YOU EAT COUPAKES AND REFUSE TO PUT ON PANTS.  
its called balance.

### FINALLY! BLONDE MEN JOKES:



A blonde man is in the bathroom and his wife shouts "did you find the shampoo?" He answers "Yes but I'm not sure what to do ... it's for dry hair and I just wet mine."

A blonde man spots a letter on his doormat. It says on the envelope "DO NOT BEND". He spends the next 2 hours trying to figure out how to pick it up.

A blonde man shouts frantically into the phone "My wife is pregnant and her contractions are only 2 minutes apart!" Is this her first child?" asks the doctor. "No!" he shouts, "this is her husband!"