



South African Model Aircraft Association

Postal address PO Box 7116, Bonaero Park, 1622, South Africa Fax 086-607-8733
Telephone: GM, Bob Skinner 083-283-1681. Administration: Linda Dold 083-612-7047
e-mail: admin@samaa.org.za and gm@samaa.org.za
www.samaa.org and www.samaa.co.za:89

To: All SAMAA members

Date: 18 June 2021.

Communique # 26

Dear SAMAA Member,

Good day to all from the South African Model Aircraft Association (SAMAA) Management Committee (SMC). Apologies for the delayed distribution.

COVID-19 Update – RSA is in lockdown level 3, please note the following changes in regulations.

1. Curfew hours – 22H00 to 04H00.
2. Wearing of face masks remains mandatory.
3. Maximum of 100 attendees to any compliant field.
4. Consumption of alcohol in public places are not permitted.
5. Renewed focus for Onsite Compliance officers, this to maintain protocols.
Responsible person's name must be displayed.

Events planned.

- **MAASA League 4.**
 - 20th June 2021 @ 8:00 am - 5:00 pm
 - North Eastern Radio Flyers
 - Contact: Chris O'Connell 082-900-5353 chriso@bitanium.co.za
- **FLYFPVSA Gauteng Regional Round 1:**
 - Barnstormers Model Flying Club.
 - 27th of June 2021 @ 7:00 am – 5:00 pm.
 - Entry form on <http://flyfpvsa.org.za/>
- **SAMPRA @ Bela Bela**
 - 03rd- 04th July 2021
 - Matthys Botha 073-895-9909



Associate member of the Aero Club of South Africa. Affiliated to the Fédération Aéronautique Internationale.
The SAMAA is a non-profit, public-benefit organisation, PBO Reg. No. 930030082.
Committee (from March 2020)

Danie Potgieter, Burt Botha, Alec Groenewald, Johan Blom, Linda Dold, Juanita Smith, Bob Skinner



- **LSA Series Scale @ Rand Model Aeronautic Club**
 - 04th July 2021
 - Justin Gomersall 084-465-1000

- **F5J League / Friendly competition**
 - 04th July 2021
 - Mike Vos 081-361-5063

You Tube Channel “#IMUSTFLY”.

Milestone - first interview video – We have invited Barry Theunissen from Brainworx to talk about their new application named AEROMURA, and what potential this has for the Hobby. This will be released on Saturday and are looking forward to your comments.

Next in line is our DIY video series, a well-known veteran in the industry have agreed to assist us in getting the DIY series of the ground, we will start off with the basics, sharing knowledge as we go.

Head on over to www.samaa.org.za and click on the You tube link. 😊

A SHORT HISTORY OF THE AIRCRAFT PROPELLER

Aviation has come a long way since the Wright Brothers first took to the skies in 1903. Just as aircraft design has progressed since the beginning of powered flight, aircraft propellers have transformed, too. Here’s a closer look at the evolution of the aircraft propeller:

The first versions of the propeller were derived from a rotating screw design, which was first invented by the ancient Greek scientist Archimedes in 200 BC. These early screws were used by ancient civilizations to lift water from wells with much less effort. In the mid-1400s, Leonardo da Vinci reimagined the screw concept for a different purpose: a flying machine. [Sketches](#) of his first helicopter design (which he never built) include an upward-facing “air screw” that he believed would lift off the ground with enough rotation.

By the mid-1700s, inventors were using the rotating screw design as a means to propel boats and ships through the water. Marine propellers with multiple blades soon became standard technology on a variety of different vessels, and variations of the screw design are still used to this day.

Soon after the first hot-air balloon flight in 1783, inventors began to experiment with methods of propelling and controlling both lighter-than-air and heavier-than-air aircraft. Jean Baptiste Marie Meusnier envisioned an enormous [airship](#) that was to be driven by three hand-cranked propellers, though his design was never built. In 1852, [Jules Henri Giffard](#) invented the first full-size powered airship, which used a three-bladed propeller paired with a 3-horsepower steam



South African Model Aircraft Association

Postal address PO Box 7116, Bonaero Park, 1622, South Africa Fax 086-607-8733
Telephone: GM, Bob Skinner 083-283-1681. Administration: Linda Dold 083-612-7047
e-mail: admin@samaa.org.za and gm@samaa.org.za
www.samaa.org and www.samaa.co.za:89

engine. And in 1873, aviation pioneer [Alberto Santos-Dumont](#) built steerable aluminum airships powered by large wooden propellers.

Over the next few decades, numerous heavier-than-air flying machines were designed and built using propellers based on the screw-shaped design. However, it wasn't until the early 1900s that the first successful airplane – and the first successful airplane propeller – finally came to fruition, thanks to the Wright Brothers. Using data from their innovative wind tunnel tests, the Wrights realized that aircraft propellers should be shaped more like a wing, or airfoil, as opposed to a screw. They found that propeller blades act much like a rotating wing, but instead of creating lift, the spinning blades displace air backward to produce forward thrust. The Wrights also came up with the idea of adding a twist along the length of each propeller blade, which gave the blades a more consistent angle of attack with each rotation.

The first propellers were made from wood and were fixed pitch, which greatly limited the performance capabilities of the aircraft. In 1929, Wallace Turnbull patented his design for a [variable pitch propeller](#), which allowed the pilot to manually adjust the blades' pitch and maintain better control over the aircraft's performance and operational efficiency.

Later, [constant-speed propellers](#) were developed, which are variable pitch propellers that adjust pitch automatically to maintain a constant rotational speed. Most of today's high-performance propeller aircraft use constant-speed props because they offer better performance and fuel efficiency.

After the Wright Brothers' breakthrough design in 1903, propeller technology advanced rapidly. While the Wrights' propellers were about 82% efficient, today's propellers operate at around 90% efficiency. Modern propellers are made from aluminium or composite materials and range from two to six blades.

Hartzell Propeller has been at the forefront of aircraft propeller design and manufacturing since the early days of aviation. In fact, our history dates back to 1917, after Orville Wright suggested Robert Hartzell start manufacturing hand-carved propellers from his walnut wood factory. Since the very beginning, Hartzell Propeller has committed to producing highly advanced aircraft propellers designed for safety, reliability, and maximum performance.

Martin Snyman Winner of Communique # 25 - Well-done Martin Snyman from Pretoria Radio Flyers, winner of the previous Word puzzle.

We would like to extend our gratitude to all the members taking part in our Bi-weekly competition, great to see the continued support. We love to hear from you, it keeps us honest and maintains growth, so hit that reply button and tell us all about it.

Current Standings – Capricorn Radio Model Vliegklub still in the lead for the bonus prize at the end of the year.



Associate member of the Aero Club of South Africa. Affiliated to the Fédération Aéronautique Internationale.
The SAMAA is a non-profit, public-benefit organisation, PBO Reg. No. 930030082.
Committee (from March 2020)

Danie Potgieter, Burt Botha, Alec Groenewald, Johan Blom, Linda Dold, Juanita Smith, Bob Skinner



Club Name	Club Winnings	Winnings		
Durban Model Aircraft Club	1	R 100	Communique 12	Russell Conradt
Maritzburg Model Aircraft Club	2	R 400	Communique 13/23	Roger Auker/Inus de Wet
Modderfontein Model Aero Club	1	R 200	Communique 15	Doug Moss
Capricorn Radio Modelvliegklub	3	R 600	Communique 16/17/19	Francois Robbertze/Hennie Miller/Dirk De Klerk
Irene Radio Flyers	1	R 200	Communique 18	Nico Brummer
Weskus Radio Flyers	1	R 200	Communique 20	Alex van Breda
St Blaize Model Flyers	1	R 200	Communique 21	Herman Venter
Umbila Radio Flyers	1	R 200	Communique 22	Andrew Clark
Fish Hoek Radio Flyers	1	R 200	Communique 24	Angus McCallum
Pretoria Radio Flyers	1	R 200	Communique 25	Martin Snyman

R 2 500

T D S R S P l e e r h t U n h
b x h c k D r i O u a J J o o
r s r r s j d o g R B g B i t
e e e E j e u T p h o g l t r
w c Q d p c l G u e t F Q a e
x r n a e e D l t r l e v t b
R d h a p m a z h h n l r o l
o s e o m p i G a E v b e R A
t s r d I r G h n Q a D u r U
a P e z a p o y c i v P X l s
t w Y f k l u f r r w i n v l
i E T D A I b v r m A Y J x v
n g i s e D j D W e n g N r s
g w i n g r P m O P P d L r Y
b o a t s u p e k g p N c N Y

Alberto	air	Archimedes
boats	bladed	Design
Performance	lighter	Propel
Rotating	Propellers	Rotation
shaped	Screw	than
Turnbull	three	wing

Please submit your answers to
admin@samaa.org.za with your name and
SAMAA number before 12:00PM 25th June
2021 to stand a chance to win

R 200.00

**We have a new Sponsor -
Please see below for more
details.....**

Thank you for your time and remember, "Don't limit your challenges, challenge your limits"
Happy landings,

Best regards
The SAMAA Management Committee



Velsorg Produkte
Net die beste is goed genoeg -
van die natuur tot op jou vel.

Skin Care Products
only the best is good enough -
from nature to your skin



Al ons LUUKS leerprodukte
kom in 2 kleur opsies...

All our LUUKS leather products
come in 2 color options...

TOFFIE

KOFFIE



Klein agent: Linda Dold
083-612-7047, lindad@bestwebs.co.za