

The newsletter of the Sport Aircraft Association (Auckland Chapter) Inc

# Sport Aviator

November 2016



# Committee 2016

## EXECUTIVE COMMITTEE

<b>President:</b>	<b>David Wilkinson</b> 021 468 270
<b>Vice President:</b>	<b>Gary Briggs</b> 09 277 9959 021 168 7206
<b>Secretary:</b>	<b>Ken Watters</b> 09 535 2435 027 565 9596
<b>Treasurer:</b>	<b>Gordon Sanders</b> 09 534 2464 021 266 0585

## COMMITTEE MEMBERS

<b>Peter Armstrong</b> 09 576 3676 021 883 080	<b>David Campbell-Morrison</b> 09 817 4782 021 946 078
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**Scott Neill**  
09 826 5655  
027 479 3280

## OPERATIONAL POSITIONS

<b>Safety Officer</b> Norm Bartlett 09 528 0108 027 611 2153	<b>Technical Library</b> Rob Keith 09 534 3845
<b>Tool Library</b> Manfred Scherbius 09 298 0221 021 0813 6503	<b>Newsletter Editor</b> Gavin Magill 09 298 7174 027 291 0525
<b>Catering</b> Carl Pudney 027 430 5303	<b>Airspace Users Group</b> Steve Chilcott 09 376 3794 021 763 742

## TECHNICAL MENTORS

Wood & Fabric	Mike Tunnicliffe	09 237 8173
Composites	Alistair McLachlan	299 2775
Metal Skin	Kevin Paulsen	296 5125
Avionics	Liviu Filimon	268 1199

### **FRONT PAGE**

Clive Whittfield's RV-6 slowly coming together in his workshop.

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## Next Meeting

**WHEN:** Thursday 24th November 2016

**WHERE:** Auckland Society of Model

Engineers Club Rooms  
Peterson Road, Panmure Basin  
Mt Wellington

**SPEAKER:** Ken Watters will speak on a flying incident he had and what lessons were learnt from it. 10-15 min with open discussion

Doug King will speak on the new A32 Foxbat and then his career in the Rhodesian Airforce....

# 3 President's Report



Hi Everyone.

Well Christmas is fast approaching with only 5 weekends left...

The Black Sands fly-in was once again a fantastic weekend with a good turnout of aircraft. Many Thanks to the Waikato Chapter for the effort they put into this event.

We are proposing a Christmas fly-in / BBQ at North Shore airfield on either the 10th or 11th of December. Check your dairies and we will ask for a show of hands at the meeting to see which day suits the majority. This will be held in conjunction with the completion celebration of Julian Coles new hangar. We may even get 3 North Shore based Corby's in the air together for you.

Jon Farmer has also emailed members with another Christmas function available in conjunction with ARMAC.

The chapter is also proposing to purchase a dynamic propeller balancer. The unit costs US\$1500.00 and there will be GST and freight to be added. Cost in NZD will be somewhere around \$2500 landed. I have used this unit on the RV and it is fantastic. A member has had a vibration issue this week and it has caused cracking of exhaust brackets etc. Reducing vibration in an airframe not only minimises maintenance but also pilot fatigue. The unit is very easy to use and takes 1-2 hours per aircraft. Please have a think about it before Thursdays meeting. The club is in a good financial position to aid this purchase.

Anyway, that's enough from me and we will see you all on Thursday evening.

Cheers

David



Hi Everyone

A short and sweet update from yours truly this month. The last few weeks have been a bit frantic around our place and as such I haven't been able to put as much time into my SAA tasks as I should have. With our house in

Auckland now sold as of today, I will hopefully be able to give more time to matters SAA.

I did manage to fly over to Raglan on the Saturday of the Black Sands fly-in and as David said there was a good turnout for the event. The winds were a little blustery which caught a few pilots by surprise. There was a good number of Auckland Chapter members present and Paula Moore's presentation of the new airspace changes was very well attended. If you have not already done so please remember to purchase new maps as the airspace around the whole country has significantly changed.

On the news front, the earthquake in Kaikoura has been the biggest event over the last week or so. We are extremely fortunate not to have been affected by it, as many folks in the top of the South Island are struggling with the after effects. What has been good to see is how aircraft (in particular helicopters) have played a role in the rescue efforts. I have seen two articles in the general press about fixed wing aircraft also playing their part. One article was about aircraft from Ashburton AeroClub bringing in baking and fresh supplies to the locals in Kaikoura while the other was about a local ag pilot delivering supplies to farms that have been cut off. Perhaps the usefulness of airfields and airstrips in such events needs to be highlighted and emphasised to other small towns around NZ who look sideways at maintaining their local airfields.

Please don't forget to register for Great Plains if you are intending to go. If you need a registration form they can be downloaded from the SAANZ Events website.

Also on the fly-in calendar, the Bay of Plenty Chapter are organising a fly-in of SAA aircraft for the Classics of the Sky Tauranga airshow on January 21<sup>st</sup>. I don't have details yet but

once I have details I will distribute to the Chapter.

The mystery aircraft for September was correctly identified by Steve Stride as the Bell XP-77.

It was great to see Steve at last month's Chapter meeting. He gave those of us attending a good insight into flying amateur built aircraft in the UK. Given the ever-shrinking airspace available to private aviation in that country, I think we should count ourselves very fortunate to live in NZ,

From Wikipedia. *"The Bell XP-77 development was initiated by the United States Army Air Forces during World War II to produce a simplified "lightweight" fighter aircraft using non-strategic materials. Despite being innovative, the diminutive prototype proved tricky to handle and the project was cancelled when the XP-77 did not deliver its projected performance."*



Enjoy the newsletter. See you Thursday night.

Cheers

Gavin



## PROJECT UPDATE

## Clive Whittfield– Van's RV-6

By Clive Whittfield

A couple of photos showing current state of my RV6. All parts are now stripped back to bare metal in preparation for the painting process. Hopefully get that completed over the summer break then ready for final assembly. The 'to-do' list is getting shorter by the day.



## PROJECT UPDATE

## Paul Blackmore - Sonex

By Paul Blackmore

I have attached a couple of photos of my project below. Note the 4:1 exhaust



Cheers

Paul

## ARMA C NEWS

## Jon Farmer – ARMAC Christmas Lunch

By Jon Farmer

### End of year/Christmas lunch

The microlight club, ARMAC, invite SAA members to join them for lunch at La Valla, Tuakau, on Sunday 18th December. It will be a catered meal for a special price of \$30 per person.

Peter Jackson, the owner of La Valla, owns a Foxbat microlight and is a member of ARMAC hence the special price for what is normally a \$45 meal.

The history of La Valla goes back many years when it was a monastery and the monks ran a farm but created some special places in the grounds including a grotto complete with waterfall which we will have access to. When the monks left, the property became a youth detention centre and after that the present guest house and function centre.

There is an air strip in the grounds. It is up hill a bit like Puke E. but without the trees that cause turbulence there. Peter usually leaves a car in the parking area at the top of the strip. You can't miss the car, it has sign writing 'La Valla Pilots Car' on its sides.

Please let me know as soon as possible if you are coming and how many with you, as I need to firm up the booking.

Thanks, Jon.

## MEMBER NEWS

## Peter Walton – RPL Renewal

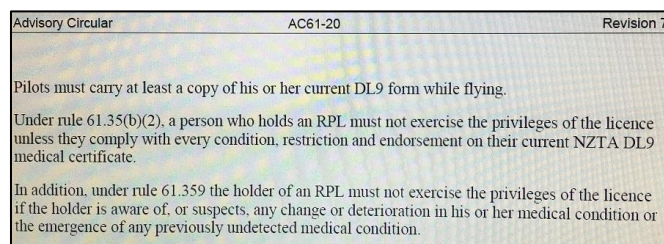
By Peter Walton

Hi Gavin, just done my DL9 for my RPL and happened to read the latest Advisory Circular about RPLs and saw that we are supposed to carry a copy when we are flying, see attached.

Maybe everyone already knows this, but I did not and now have a copy on my phone.

Perhaps this info is worth circulating in case I am not the only bunny out there!

Peter



## PROJECT UPDATE

## David Wilkinson– DR 107

By David Wilkinson

DR107 – Progress

I'm still making steady progress on the DR 107.

Rudder pedals are installed and I am currently working on the tail. The next major thing to be done is to mate the wing to the Fuselage. I am just waiting for a second set of wing bolts as the set that I received for the States were under size.

I will need to take the wing and fuselage to the hangar to mate it all together as I need to stand the fuse vertically on its nose, while I pour the epoxy into the main spar to set the bolt inserts.

My welding is slowly improving !!!! But John Hansen is still doing all critical welds



## PROJECT UPDATE

## Steve Chilcott – Topsy Nipper

By Steve Chilcott

Hi Gavin

Starting to make progress on the Nipper. The fuselage has been modified with the LAA approved tall-pilot mods and after bead blasting has been painted with an epoxy primer and the inside of the tubes preserved. A couple of problems showed up after the bead blasting but it was a simple job to replace tubes rather than trying to repair.

Just starting to do a full assemble of the fuselage before covering, mainly to see what parts I am missing. Still trying to find a few parts. At the moment, 4 inch wheels with a 1 inch roller bearing are proving hard to find. The nosewheel, although it uses the same size wheel, is more easily modified and I can use a 5/8 inch bearing, with some sleeving, which seems to be the standard these days.

The other slight problem that I have had to overcome is the use of BA hardware that is just about impossible to source. Generally, I have been able to use standard AN replacements but there are some very small bolts with quite long grips that the AN system does not seem to cater for.

Steve



## MEMBER NEWS

## DCM – Coromandel Tiki-Tour

By DCM

Don, David, DCM, Bill Luther and Steve Stride (Corby Starlet owner from England) on a Friday TikiTour around the Coromandel to show Steve just how many beaches we have in NZ, he was blown away.... we went to Coromandel airstrip for lunch then onto Pauanui for an ice cream and back to North Shore via the tip of Coromandel and Kawau, a great day had by all.





## PROJECT UPDATE

## Frank Trump – Aeromax

**By Frank Trump**

Here is some info regarding my project the Team Minimax, Aeromax.

I have not made a lot of progress in the last few years.



## PROJECT UPDATE

## Gordon Lindsay – Corby Starlet

**By Don Wilkinson**

Engine run 12<sup>th</sup> Nov on Gordon's prize Starlet. Intricate rig to safely adjust high speed jet. Note screwdriver preset and wired on before start. Picketed saw horse provides protection for Gordon while David works throttle and calls out sweet spot. Alistair monitoring the procedure. Don on camera' built the rig but was too scared to go anywhere near it. Engine started easily and sounded well. Expect flight in 2 weeks. Cheers Camera man





## CHAPTER NEWS

## Dynavibe Prop Balancer

By Gordon Sanders

A case has been put to the committee for the purchase of a replacement propeller balancer. The proposed unit is the same as one owned by Kevin Paulsen and has been found to be much easier to operate than the chapter's earlier generation unit, which had problems with engines which employed a reduction drive, such as the Rotax range.

The balancer under consideration is the cheapest of the Dynavibe series. It can be seen at the link below. The selected model is for fixed wing aircraft for which it has been found to be adequate and easy to use. An expanded version, which includes the extra transducer required for helicopters, is also available, at an additional cost of approx \$NZ850. At the time of writing this email the committee is of the opinion that the potential usage does not warrant the additional cost.

<http://www.aircraftspruce.com/catalog/app/ages/dynavibe.php?clickkey=15284>

Chapter member Kevin Paulsen owns one of the proposed units and has found it to be very easy to use. I have also discussed the matter with Manfred Scherbius who is the only member to have got 'up to speed' on operating our present earlier generation prop balancer, which is at least 12 years old. Our present unit is tricky to use, requiring a series of engine runs with varying test balance weights applied, followed by the compiling of vector diagrams to determine the placement and magnitude of the final weights. The balancer also falls well short where reduction drives, and belt drives in particular, are involved. Manfred is strongly in favour of replacing this instrument.

A quotation for supply ex-store Auckland is awaited, but an estimate (guesstimate?) based on the current NZ/US exchange rate is \$2,600 GST Incl.


Expenses beyond the regular operating expenses of the Chapter require the approval of membership at a General Meeting, so it is likely that this matter will be put to a vote at tomorrow evening's meeting. Chapter finances are healthy and we can easily afford it.

For those seeking to minimise prop vibration and ensure longer life of all aircraft components, plus maximise personal comfort (or minimise discomfort?) please be aware that dynamic balancing is not a silver bullet, just the 5th and final step in the process. Before dynamic balancing is undertaken four other items need to be brought into balance as closely as possible. They are blade length, static balance, blade pitch, and tracking. Manfred and some other members have done quite a bit of work in these areas so advice is available if required.

Please consider this matter before the meeting and if you have questions either bring them to the meeting or ask by email and we'll endeavour to get the answers.

Thanks and regards  
Gordon Sanders  
Treasurer.

DYNAVIBE PROP BALANCER



(Click image for a larger view)

**Make Selection(s) Below To Order**

From \$1495.00 to \$2190.00  
★★★★ (0) [review this](#)

A/C Type:

Version:

Part Number:

Quantity:



Some images from Black Sands 2016.



**Thatcher CX 5**



**Kevin Paulsen in DQG**



**Looking along the flight line**



**Peter Armstrong arriving in ZK-PSA**



**Alistair and Alan in discussion**



**Excellent lunch served by Waikato Chapter**



**Bruce Cooke camouflaged against ZK-REX**



**CAA Airspace Presentation**



Another interesting mystery aircraft sent to me by Barry Gillingwater. If you can identify it, email your answer to the editor at [gavin.magill@gmail.com](mailto:gavin.magill@gmail.com) before the Chapter meeting and the first person to get the correct answer earns a chocky fish.



# 12 In the News & On the Web

## ON THE WEB

### Airbus Flying Taxi

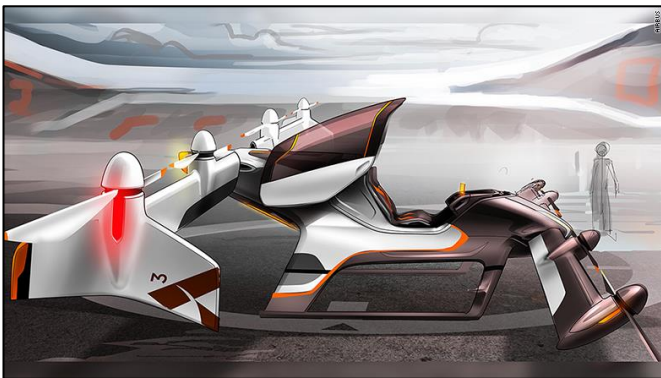
From Gavin Magill

Airbus offers a peek at its flying taxi

<http://money.cnn.com/2016/10/20/technology/airbus-flying-taxi/>

European aerospace giant Airbus has quietly lifted the curtain on an ambitious Silicon Valley project called Vahana.

It's a pilotless passenger aircraft that aims to someday add a vertical component to your commute.



## ON THE WEB

### Lifting US Air Airbus from the Hudson

From Norm Bartlett

Interesting series of pictures.

<https://noorslist.wordpress.com/2009/01/19/lifting-the-a320-new-york-plane-crash-us-airways-airbus/>



## ON THE WEB

### Kaikoura Earthquake Response

From Gavin Magill

Private planes take supplies to farms cut off by the North Canterbury earthquake.

<http://www.stuff.co.nz/business/farming/86674358/three-planes-take-supplies-to-stranded-farms>



## ON THE WEB

### What Mess

From Don Wilkinson



## ON THE WEB

### Bar Fly

From Unknown





## Chapter Events

2016

<b>Nov 24</b>	<b>Chapter Monthly Meeting</b> Normal venue and time. 7.30 p.m. at the Auckland Society of Model Engineers clubrooms, Petersen Dr, Panmure Basin
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## Aviation Calendar 2016

2016

<b>Every Sat</b>	<b>Dargaville Aero Club</b> The place is buzzing every Sat, wet or fine, windy or calm, and the catered lunch at 12.30 is good value, just don't be late! Club website is <a href="http://dargavilleac.weebly.com/">http://dargavilleac.weebly.com/</a> . If going as a group, please ring in advance so the cook expects you. Ph. Murray 027-478 4308 or club house on 09-439 8024.
<b>3<sup>rd</sup> Sun Month</b>	<b>Turangi Aero Club Fly-In</b> All welcome for a BBQ lunch. Contact Tony on 027-453 3740
<b>Nov 26</b>	<b>Flying NZ Northern Region Competitions Mercer Airfield.</b> Info at <a href="http://www.flyingnz.co.nz">www.flyingnz.co.nz</a>

2017

<b>Jan 03-07</b>	<b>Model Aircraft Nationals Comps 69<sup>th</sup> 'Nationals' at Matamata Airfield</b> Details are being progressively updated at <a href="http://modelflyingnz.org/nats/">http://modelflyingnz.org/nats/</a>
<b>Jan 11-21</b>	<b>51<sup>st</sup> Walsh Memorial Scout Flying School. Matamata Airfield.</b> Annual 2-week flying school for Scouts and other young people. Info at <a href="http://www.scouts.org.nz/walsh">www.scouts.org.nz/walsh</a>
<b>Jan 21</b>	<b>Classics of the Sky Tauranga City Airshow.</b> An afternoon/evening event still in the planning stages. Last year's event combined with a truck show and a similar combo show expected this year. For more info see <a href="http://www.tcas.co.nz">www.tcas.co.nz</a> or <a href="https://www.facebook.com/classicsoftheskytauranga">www.facebook.com/classicsoftheskytauranga</a>
<b>Jan 28</b>	<b>Stratford Aero Club Sports Flyers 85<sup>th</sup> Birthday Celebrations. Stratford Airfield</b> <b>Note change of date.</b> Contact Nick Furmage Ph:020 40428854 or <a href="mailto:bigsky4394@gmail.com">bigsky4394@gmail.com</a>
<b>Feb 04-06</b>	<b>Great Plains Fly-In, Ashburton Airfield</b> The Ashburton Aviation Museum is again hosting the SAANZ bi-annual Great Plains Fly-in, Wings Awards Dinner and AGM over Waitangi weekend. Details are progressively updated at <a href="http://www.saa.org.nz/public_pages/events.php">www.saa.org.nz/public_pages/events.php</a>
<b>Feb 11-12</b>	<b>Healthy Bastards Bush Pilot Champs Omaka Aerodrome, Blenheim</b> Contact Craig Anderson. Ph: 029 890 4910 Email <a href="mailto:craig@soundsaero.co.nz">craig@soundsaero.co.nz</a>

## Aviation Calendar 2017

2017

<b>Feb 17-19</b>	<b>Wings over Wairarapa, Hood Aerodrome, Masterton.</b> Full info at <a href="http://www.wings.org.nz">www.wings.org.nz</a>
<b>Feb 24-26</b>	<b>RNZAF Air Tattoo, RNZAF Base Ohakea</b> Celebrating 80 years of service. More info at <a href="http://www.nzdf.mil.nz/news/media-releases/2015/20151118-afbasttm.htm">http://www.nzdf.mil.nz/news/media-releases/2015/20151118-afbasttm.htm</a>
<b>Mar 03-05</b>	<b>Tiger Moth Club AGM Fly-In, Omarama</b> Annual summer fly-in, competitions, annual dinner, AGM. Contact secretary Graeme Wood on 027-293 2318 or <a href="mailto:woodsyclear.net.nz">woodsyclear.net.nz</a>
<b>Apr 14-16</b>	<b>Classic Fighters Airshow, Omaka Airfield</b> Includes Knights of the Sky Great War Exhibition. More info at: <a href="http://www.omaka.org.nz/">http://www.omaka.org.nz/</a>

If members are aware of other events that could be of interest to others, please pass the details to Gordon Sanders - [gordon@sanders.gen.nz](mailto:gordon@sanders.gen.nz).