

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

Sport Aviator

September 2015



www.saaauckland.org.nz

Committee 2015

EXECUTIVE COMMITTEE

President:	Warren Sly 07 561 4335 021 772 351
Vice President:	David Wilkinson 021 468 270
Secretary:	Ken Watters 09 535 2435 027 565 9596
Treasurer:	Gordon Sanders 09 534 2464 021 266 0585

COMMITTEE MEMBERS

Nev Hay 09 521 7077 021 124 4006	Peter Armstrong 09 576 3676 021 883 080
	David Campbell-Morrison 09 817 4782 021 946 078

OPERATIONAL POSITIONS

Safety Officer Norm Bartlett 09 528 0108 027 611 2153	Technical Library Rob Keith 09 534 3845
Tool Library Manfred Scherbius 09 298 0221 021 0813 6503	Newsletter Editor Gavin Magill 09 298 7174 027 291 0525
Catering Carl Pudney 027 430 5303	Airspace Users Group 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

Jon Farmer's R80 Tiger Moth now has its wings on and is in the process of being rigged. Jon hopes to be flying in time for the Tiger Moth fly-in at Taumarunui on the weekend of October 16-18.

Contents

- 2 Committee 2015**
- 3 Presidents Report**
- 4 From the Editor**
- 5 Chapter News**
- 8 Mercury Bay Student Aviation**
- 9 Mystery Aircraft Quiz**
- 10 In The News & On The Web**
- 11 Upcoming Events**
- 12 Classifieds**
- 13 Auckland Model Scale Days**

Next Meeting

WHEN: Thursday 24th September 2015

WHERE: Auckland Society of Model
Engineers Club Rooms
Peterson Road, Panmure Basin
Mt Wellington

SUBJECT: Which way to run when an
incident occurs.
"Don't panic Mr Mannering, Don't
panic"

SPEAKER: Clive Whitfield

Clive, now General Manager for Composites International, was a Senior Fireman for 24 years and as such, is well equipped to advise members on this subject.



How many of you use our web site? www.saaauckland.org.nz

I would like your feedback on what you like and what needs improvement.

You will see there are two parts - Public and Private.

The Public side is accessible by everyone while a username and password is required to enter the private area.

The Public Area has;

- All of our contact information, news and coming events.
- Download history of our Newsletters.
- Links to sites of interest.
- Construction tips.
- Buy Sell Exchange.
- Gallery of member's aircraft.

I need your help to constantly improve and expand this site.

Please send me a pic with a brief description of your plane for the gallery.

I will add interesting links and construction tips. We can put up video clips of tips.

Please let me know if this is relevant and useful. Or am I flogging a dead horse?

Pictures and advertisements are free to members to sell stuff. Put up a request for stuff you need. You may want to swap a camper for an RV.

We are lucky to have Gavin giving us a wonderful News Letter. All back issues are downloadable.

I am keen to make our web info as interesting, useful and relevant as possible.

Don't be shy in coming forward.

Regards
Warren



Hi Everyone

Unfortunately I seem to have developed a bit of a head cold so I'm not exactly enthused about writing up a column for the newsletter this month. Sadly the timing

really could not be worse as Grant Benn's completed his rating on my aircraft over the past weekend and he is keen to get started on the Pilot Improvement Program lessons with me. I have booked a flight with Grant this week but I will have to see if the head cold clears up before going flying.

It has been a somewhat quiet month otherwise with work getting in the way of life once again. In saying that, a number of members have been forging ahead with their projects. As you will have seen by the cover photo, Jon Farmer is rapidly approaching the point where he will be able to take his R80 Tiger Moth for a test flight after its lengthy rebuild. Jon kindly provided a nice little piece for the newsletter on how to use the Chapter cable tensioner for rigging the Tiger Moth flying wires.

Also this month David Wilkinson has made quite significant progress on his DR107 project. David was fortunate enough to discover another DR107 builder who has gone to the trouble of putting up SolidWorks drawings of all the metal parts on his website. With these drawings he was able to get a local metal shop to cut all the pieces out of a sheet of metal so he is well pleased. David has also made good progress on getting the main spar fabricated.

For those who have not already heard, Gary Briggs has offered to host another visit to his Dannemora home workshop. If you are intending to go please let Gary know so he can cater for the visitors. The last visit was a great success and I imagine this will be much the same.

As an aside, if you are keen to host a visit to your own workshop then please feel free to send out an invite via the Chapter group email system. I think if we could arrange a visit once a month it would be a great boost to the Chapter.

Last month's mystery aircraft was a very obscure aircraft called the Paribatra and was a two seat bomber design which served with the Royal Thai Air Force from 1927 to 1940. Thanks to Paul Blackmore for spotting the aircraft on his travels and providing the picture. The aircraft was identified by Steven Stride in the UK so unfortunately I won't be able to send Steve a chocky fish in time. Steve said it was a bit tricky but the elephant painted in the roundel on the side of the fuselage helped him identify it.



This month's mystery image is a bit different and is by John King. It will be interesting to see who manages to answer the two part question. Go to the mystery picture page and have a go and see if you can earn yourself a chocky fish.

Enjoy the newsletter. See you at the meeting on Thursday.

Cheers
Gavin

MEMBER NEWS

Battle Of Britain Fly Past

By Kevin Paulsen & David Wilkinson

Vans Blue RV Team joined New Zealand Warbirds to commemorate the 75th Anniversary of the Battle of Britain with a fly-past over Auckland on Sunday the 20th of September. Below are some images.

Pilots involved were:

Kevin & Leanne in PRV, Bill Luther in WLL, Steve Jones in NVS, Des Barry in DES, David and Don in WLK

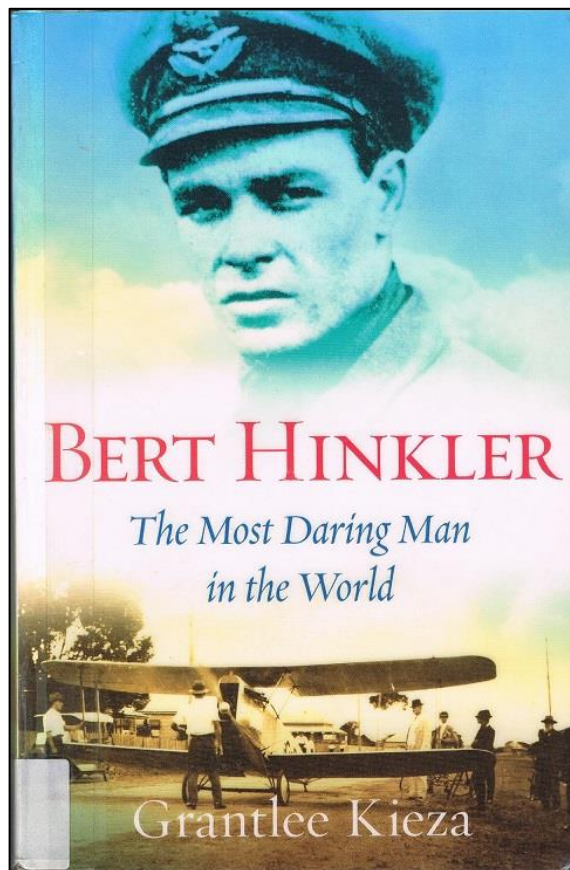


MEMBER NEWS

Book Review – Don Wilkinson

By Don Wilkinson

There's no company like a good book. With it there is always something to look forward to. Here is an outstanding one. The amazing German Aussie, Bert Hinkler.



Bert Hinkler

"The Most Daring Man in the World"

This book, published in 2012, is wide ranging in content and totally absorbing. Written in an entertaining way it describes, not just Bert's unbelievable achievements, but also a lot about early aviation history. But why did he not stop in Florence when caught in a storm? Highly recommended.

PROJECT UPDATE

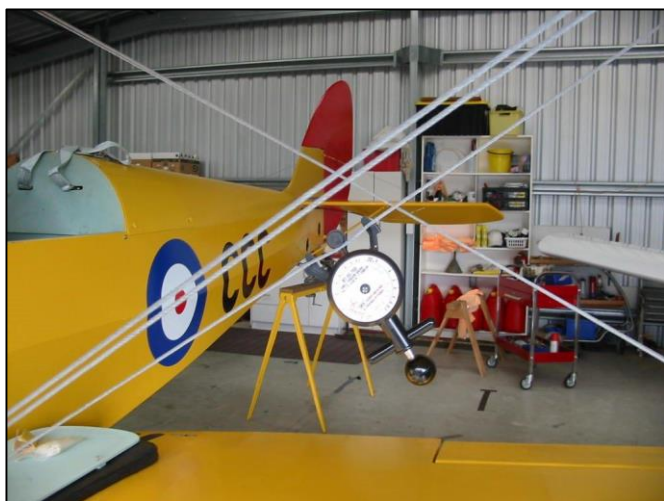
Jon Farmer – R80 Tiger Moth

By Jon Farmer

Whilst rigging my recently repaired R80 Tiger Moth, I was faced with getting several sets of wires to the same tension. With the 1/6" and 3/32" wires you can pluck them and tune them all to the same note but the 1/8" and 5/32" wires are not required to be tensioned to the extent that they make more than a dull 'brrrm' which is not much help and so I borrowed the Chapter 'Cable Tension Meter'.



The cable tension meter consists of two fixed arms with a spring loaded circular hook between them which rotates the dial. This dial converts the 'sag' produced in the cable to tension in pounds via different scales for 1/16", 3/32" and 1/8" diameter cables. It is probably meant for use on control cables rather than rigging cables as, apart from the 1/16" cables bracing the tail feathers, the tensions were off the scale.



However, I was mainly interested in getting the tension the same and just used a common point on the scale for each flying wire. Actually, the flying wires are 5/32" and not even calibrated for on the scale but I picked a point on the scale to tune all 6 wires to that mark. The meter was really handy getting the dual front flying wires the same as tightening one let the other go slack, and so it was back and forth three or four times until the meter registered the same for each pair.

MEMBER NEWS

Sandy Wilson – P51

By Sandy Wilson

Hi Gavin

Finished the P 51 for my grandson but not having much luck getting the permit to fly!

Cheers

Sandy



PROJECT UPDATE

David Wilkinson – DR107

Well, maybe my father is correct in what he says about me.... Find the laziest man to do the job and he will find the easiest way to do it...

I stumbled across a DR107 builder's website from America who has drafted up the entire DR107 in SolidWorks. His website is:

<http://www.mykitlog.com/users/category.php?user=marksant&project=2421&category=10221>

I sent him an email on the off chance that he would send me the files and offered him a ride in the RV8 (In NZ though).

The next morning a very friendly email arrived from him offering all the drawing files.

These files have saved many hundreds of hours as all parts are now being cut out at the one stop cut shop in Silverdale (<http://www.onestopcuttingshop.co.nz>)



Skeleton of metal sheet after parts have been cut out using SolidWorks drawings.

The Main spar for the wing will be laminated this week and the guys at Aerowood in Pukekohe are helping me with this. They are also building 3 DH Mosquito wings. I have attached some photos of the laminations being cut.



The entire spar will be vacuum bagged to 14 psi while the glue cures.



The Spar will then be put into the CNC machine to have all tapers cut and rib stations marked.

Twelve wing ribs are now completed out of 18 and the fuselage was strapped to the car and taken to John Hansen's for final welding last week.



8 Mercury Bay Student Aviation Trust

MEMBER NEWS

Mercury Bay Student Aviation Trust

By Alan Coubray

Hi Gavin,

This was in the Hauraki Herald.

Mercury Bay students taking flight with own plane.

By CLAIRE FITZJAMES



Mercury Bay Area School students are half way through 900 hours of building their first Vans RV 12 two seater kit set valued at \$80,000US. Pictured (left to right) Cody Golaboski, Jordan Williams, Ruby Meek, Matthew O'Connell, Bernadine Tonoa and Rian Wheeler.

When school teachers advise their students to aim high, it is not meant to be taken literally.

However, six students from Mercury Bay Area School are half way through 900 hours of building their first Vans RV 12 two seater kit set valued at US\$80,000.

From working on wiring, flaperons, exhaust and wheel fairings to learning the complex imperial system by the beginning of 2016, a second Mercury Bay Area School built plane will be ready for take-off.



What the finished Vans RV 12 two seater kit will look like.

Every Wednesday afternoon in Jim Evan's shed adjacent to the Mercury Bay Aero Club, the students are broken down into pairs with a mentor from the local community to work on a part of the plane; a fine example of inter-generational collaboration.

Licensed aircraft maintenance engineer Jim Evans, who leads the project, pitched the idea to the school late in 2011, he oversaw the first Vans RV-12 kit-set two seater aeroplane built in 2012 and 2013 by 9 MBAS students.

The success of the first plane project has led him to oversee the second, with the help of a team of enthusiastic and knowledgeable mentors along with MBAS staff George Fletcher and Patrick Pfister.

Mr Fletcher said the students also get the opportunity to learn to fly under the instruction of mentor Alan Coubray.

"Most importantly it's about the students and the experience they get from this, from the previous plane build we had three students who went into the aviation sector. So the experience they get is amazing. How many other schools are building a functioning aeroplane?

Year 13 student Ryan Wheeler said he has been really enjoying the whole process and the biggest challenge has been understanding the plans.

There are plans for the plane to be flown down to the Wanaka War Birds Air Show at Easter next year.

The Mercury Bay Student Aviation Trust was set up to help finance the build and to subsidise flying fees for the students. A second restoration project on a Taylor-Coot amphibian aeroplane is also in the shed waiting to be completed.

9 Mystery Aircraft Quiz *by John King*

This month's quiz is a two part question. Firstly you have to identify what it is and then tell me what its significance is to aviation history?

Email your answer to the editor at gavin.magill@gmail.com before the next Chapter meeting and the first person to get the correct answers will earn themselves a chocolate fish prize. Note you will need to turn up to the meeting to collect your prize.



ON THE WEB

Cameron Airshow

From Robin Hickman

Some crazy flying for the magazine.

This is an Air Show in Cameron, a small rural town in Missouri.

<https://vimeo.com/100670266>



ON THE WEB

Farnborough 1949 / 1956

From Nev Hay

These films show activities at the Farnborough Air Show in 1949, beginning with rare footage of the Cierva Air Horse helicopter.

<https://www.youtube.com/watch?v=M3J73003IGM>

And the 1956 Farnborough show with British a/c at their Peak and Decline??

<https://www.youtube.com/watch?v=CbRG2q3O3tk>



ON THE WEB

Fuel Tanks

From Nev Hay

Ever wonder whatever happened to all those USAF fuel tanks that were jettisoned all over North and South Vietnam after the fuel was expended during their wartime missions?



Apparently they're being put to good use as river boats in the navigable rivers of SE Asia!



Chapter Events

Sep 24 Auckland Chapter Monthly Meeting

Normal venue and time. 7.30 p.m. at the Auckland Society of Model Engineers clubrooms, Petersen Dr, Panmure Basin

Speaker: Clive Whitfield

Subject: Which way to run when an incident occurs.

Sep 26 Gary Briggs Workshop Visit

11 Gilford Place, Dannemora, 10.00 a.m. onwards. A year since the last Chapter visit at which time Gary had just started on the fuselage. Come and see the high standard Gary, a LAME, is achieving. To confirm numbers please advise by Fri 25/9 if attending by replying to the broadcast email or direct to gary.briggs43@yahoo.com

Oct 29 Auckland Chapter Monthly Meeting

Normal venue and time. 7.30 p.m. at the Auckland Society of Model Engineers clubrooms, Petersen Dr, Panmure Basin

Speaker: Peter Walton & Warren Sly

Subject: Building & flying the T51 Mustang.

Dec 6 Chapter Family BBQ and Christmas Party

11.00am at Peter Armstrong's hangar, Ardmore. Keep this date free. More details next month.

Aviation Calendar

2015

Every Dargaville Aero Club

Sat 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! The club is on the web at <http://dargavilleac.weebly.com/>. If going as a group please have the courtesy to ring in advance so the cook expects you. Contact Murray on 027-478 4308 or the club house on 09-439 8024.

3rd Sun Turangi Aero Club Fly-In

Each All welcome for a BBQ lunch.

Month Contact Tony on 027-453 3740

Oct 16-18 Tiger Moth Club Spring Fly-In Taumarunui Airfield

Annual return to club roots of 46 years ago at magnificent grass aerodrome, some flying competitions. Contact secretary Graeme Wood Ph: 09-418 3044, 027-293 2318 or email woods@clear.net.nz

Nov 7-8 Black Sands Fly-In**Raglan Airfield, Raglan**

The regular 'first of season' fly-in hosted by the Waikato Thames Valley Chapter. BBQ lunches both days. Beach landing workshop on Saturday. More info on the SAANZ web site www.saa.org.nz

Nov 13-15 Pitts 70th Anniversary / South Island Akrofest 2015 Omaka Airfield

Aerobatic Club is holding the Regional Aerobatic Competition combined with a commemoration of the first flight of a Pitts S1 in 1945. More info and Pitts history at www.aerobatics.co.nz > Events > Pitts Fly In-Omaka

Nov 21 Brian Langley Aerobatic Competition North Shore Airfield

Hosted by North Shore Aero Club. All aerobatic categories Primary to Unlimited are available and all aircraft from Tiger Moths to Extras. More info at www.aerobatics.co.nz > Events > 2015 Brian Langley . . .

2016

Jan 2-3 Auckland Model Scale Days North Shore Model Aero Club Green Road, Dairy Flat

Scale model flying both days, 9.00am to 5pm. Saturday is flying and static scale competition while Sunday is a fly-in for scale fixed wing models of any era, military or civil and probably the more interesting day for visitors. Take the family to see some of the best model aircraft flying.

Feb SportAvex 2016**19-21 Bridge Pa Aerodrome, Hastings**

Note change of date. Regrettably the date has had to be moved from March to mid-Feb to avoid clashes. The Hawkes Bay and East Coast Bays Aero Club will again be hosting SportAvex at Bridge Pa Aerodrome, Hastings. The SAANZ web site will be updated as details are finalised. www.saa.org.nz/public_pages/events.php

Mar Air Safari 2016

13-27 Starts at Omaka on 13th Mar, then via the scenic route (18 airfields) to finish at Alexandra on 25th March with dinner and prize-giving on Sat 26th and the Clyde Wine & Food Festival on Sun 27th. Then if you want to grab a rental and drive over to Wanaka to catch WOW the distance is approx. 86Km. If you need a leave pass it might be time to start working on brownie points. For info and to register go to:

<http://www.flyingnz.co.nz/new-zealand-air-safari>

Mar 25-28 Warbirds Over Wanaka Airshow Wanaka Airport

Full info at:

<http://www.warbirdsoverwanaka.com/>

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.

Gavin,

Attached is a list of parts Jenny Davis would like to sell off. I am presently assessing the condition of Turbulent ZK-CAE and the likelihood that I will buy it. There is also a completed Bobcat Microlight and a partially built Q2 in need of a new home.

[Jenny is the wife of the late Ian Davis, a past member of SAA. She has the listed parts, plus more needing cataloging plus the three a/c projects to sell off.]

Les Wilson

Aircraft Parts For Sale

All items are about 15 years old or older, some are still in boxes but I imagine are best suited to older type aircraft.

- Model D-950 Headset FAA Approved
- Fuel line filter with spare element (in moulded plastic wrap)
- Fram G-12 Gasoline Filter (Boxed)
- Westach – Tachometer (Boxed) Non-certified TSO Kit
- Airpath Compass C2300 (Boxed)
- Altimeter BD-A-15 Instrument & light Research Mfg No. IFR 41-15 Serial No. 1062
- Facet Electric Fuel Pump
- Tube Maniseal Exhaust Cement
- 4x AN3-5A Bolts Top marked NXP with another P above the X.
- Temperature Gauge – not in great shape, attached wire has a lot of rust on it.
- Oil Pressure Gauge – also has rust
- Oil Pressure Gauge – with what looks like woven copper cord with attachment on end.
- Ignition with two keys
- 3 x Aluminium squares 155 x 155mm – 2 the same thickness, one thinner
- 1 x Nippon Seiuki Air Speed Gauge? Km/h 0-180 Pt FS-130-01
- 1 x Rev Counter x 1000 RPM
- 1 x Push – Reset Hour minute gauge Citizen 8AD407-0
- 1 x Oil Pressure Kg/Cm2 Gauge
- 1 x Temp Gauge
- 1 x Volts 8-18 Gauge
- 1 x Cleanable Oil Filter \$50.00
- 1 x Twin spark plug cylinder head \$120.00 - \$150.00

Contact Jenny Davis (07) 884 7735

There is an answerphone if I am not home but takes about 12 rings to connect.

Auckland Scale Days

January 2nd & 3rd 2016 Flying 9AM - 5PM

NSMAC Green Road, Dairy Flat, Auckland

0900 Pilots Briefing each day

Contacts:

Roger 021 422 744
Simon 0210311949
Brian 027 248 2549

SPONSORS

Hobby City
Modelair
Scale SIG



Sausage sizzle & drinks
Prizes & NO entry fee

Hobby City

SATURDAY - SCALE COMPETITION: Two classes

FLYING ONLY - No Bom rule or Static judging, just flying a schedule.

CLASSIC SCALE - Bom applies and model will be judged in a 4m circle using documentation supplied by the entrant. See NZMAA Scale page for details of flying requirement or gibbs.roger04@gmail.com and I'll send it out. 15 Kg limit.

SUNDAY - SCALE FLY-IN: for Fixed wing from any era, Civil and Military.

Normal safety rules re: Pits, Noise, Height, Observers etc.

Club marshal will organise the flight line. NZMAA members only with minimum Basic Wings Badge required & Certificates for Large Models please.