



## **RAeS HAMILTON Branch Newsletter Sep 2020.**

Hi all,

Welcome to the September 2020 newsletter. Hope that everyone is keeping well.

### **COVID-19 Level 2**

As this letter is being prepared, we are still operating under COVID-19 Alert Level 2. Hopefully we will have moved to level 1 by the time of the next meeting. If not, the rules will be as per last month. The Glenview Club will require us to:

1. Sign in and sign out of the premises.
2. Use hand sanitizer
3. Face masks are optional, although we will need to stick to the group and seating will be arranged to be at least 1m apart.
4. Stay at home if you are not feeling well.

If you want to re-familiarize yourself with the Alert Level 2 requirements, the following links will be useful.

- <https://covid19.govt.nz/covid-19/alert-system/alert-level-2/#gatherings,-events-and-public-venues> .
- <https://covid19.govt.nz/everyday-life/gatherings-and-events/>

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### **Presentations: 30<sup>th</sup> Sep 7:30PM**



#### **Part 1 – Kyle Knight, PAC**

“Aerodynamics is the science that underpins the design of all aircraft. A review of early reference books in aerodynamics will show how engineers quickly adapted the science to the design of cars, motorcycles, trains, bicycles, bullets, ski jumpers and anywhere else where Lift, Drag and other aerodynamic forces influenced performance and cost. This month’s presentation will provide an insight on how the science is applied to produce a winning package for

race cars. So - have you ever wondered how race cars go so fast while maintaining their grip on the ground? Kyle Knight worked as an aerodynamicist for the premier racing series in the United States - NASCAR. He will share what he learned as part of a race team about the competition, the aerodynamics, and what rules need to be bent to win the race.”

I am looking forward to this presentation and I’m sure that it will appeal to the other motor sport aficionados, car enthusiasts and petrol heads amongst us.

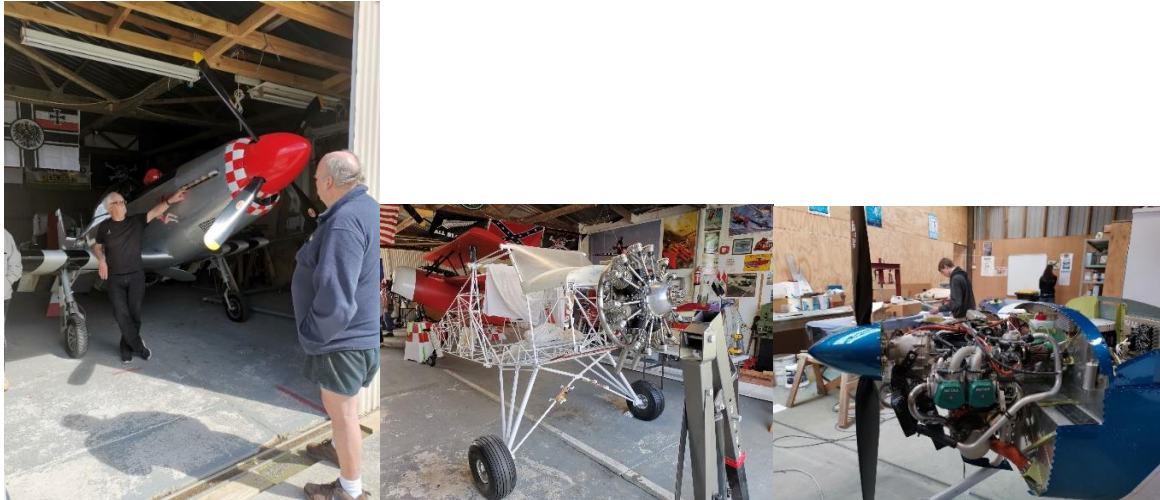


These interests and traits must be a pre-requisite for those working in or interested in aviation because, in my experience, a large number of people I meet and work with, in the industry, have an interest in motor sport. During my time at University studying Aeronautical Engineering, two of the most popular electives were vehicle aerodynamics and engine design – classes were always full and everyone was on time. Think of the Fletcher V8s that were built using Chevy or Ford engines.

This presentation will also be of particular interest to the local University students who build a race car every year.

### **Part 2 – Whitianga site visits**

On the 2<sup>nd</sup> of Sep some of us visited the Mercury Bay Area School RV-12 project and Peter Walton's aircraft hangar. Warwick and I will go through some of the photos that were taken on the day and provide some background to these. Below are a few teasers.



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### **October Presentation**

At this stage, the plan is to run a video from a lecturer at Canterbury University. This looks at the incident at Wanaka where a Yak ran into a scissor lift that had been left on the landing strip. The slide show and narrative go through the accident investigation process; risk assessment and psychology around the decision making. It looks at the events leading up to, during and post the incident. I have done some work and have been given training in this area, and this is one of the best case studies that I have seen. The lecturer provides a clear and easy to follow explanation that will be of interest to all. In particular, to those of you who were there and saw it happen.

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## November Site Visits

Remember the date; **18 Nov 2020**

All organisations are located on the same side of the airport and within an easy walk from each other. It is going to be a full day and numbers will be strictly limited to the 20 first in best dressed basis. The following is a provisional itinerary. I will need to confirm numbers by the 30<sup>th</sup> Oct, please. All sites will be operational, so there might be some special entry requirements like closed shoes, TBD.

Time	Organisations	
09AM – 10AM	Central Aero - Maintenance Hangar	
10AM – 11AM	Flight Structures workshop and Soarer Fuselage mockup.	
11:30AM -12:30PM	Alpha Aviation, production line	Waiting for confirmation from owner. He is not based in NZ.
12:30PM – 01:30PM	Lunch, Momento Cafe	This is the place we had lunch at last time we visited the airport.
01:30PM – 02:30PM	Air ambulance, Aircraft inspection	We will need to work around them as the situation is subject to change at short notice.
02:45PM – 03:45PM	Hamilton Aero Maintenance, maintenance hangar	

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## September Meeting

**TIME:**

**Wednesday 30<sup>th</sup> Sep 7:30PM**

**VENUE:**

**The Glenview Club, 211 Peacocks Road, Glenview, Hamilton 3206**

[Google Map link,](#)

<http://glenviewclub.co.nz/>

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