



**Recreational Aircraft Association of Canada, Chapter 85
General Meeting
1930, Tuesday 7 March 2017**

Attendance: 22 members attended. Executive Committee members attending: Tom Boulanger, Shawn Connelly, Perry Delano, John de Visser, Cyril Henderson, Eric Munzer, Tim Novak, Hugo Regier and Sebastien Seykora.

Presentation: Vice-President Erich Munzer introduced Kirk Kleinholz, Program Manager at Dynon Avionics, who spoke on “The Magic Behind the Glass Cockpit.”

He talked about ADAHRS, Air Data Altitude/Heading Reference System; and MEMS, Micro-Electro-Mechanical systems, and other similar topics. It was a very interesting high-tech presentation with much to understand and absorb. Our Cruiser 750 will be super hi-tech...

Some of Kirk's slides...

<p><u>ADAHRS Doing the math</u></p> <p>Inexpensive sensors have drift and temp sensitivity No absolute gyro reference, only info about change Challenge detecting which data are most accurate Keeping date corrected over time and temp.</p>	<p><u>Benefits of math</u></p> <p>Precision and reliability Weed out mortality No precession errors No whiskey compass errors</p>
<p><u>Extensive derived data</u></p> <p>Flight path indicator G meter Unusual attitude recovery guidance Data logging</p>	<p><u>Aiding Methods</u></p> <p>Pilot derived airspeed GPS ground speed Magnetometer Kalman filter - an airspeed guess</p>

Suggested References:

Dynon: <http://www.dynonavionics.com>

Skyview Interfaces: <http://www.dynonavionics.com/skyview-system.php>

Magnetometers: <http://electronicsforu.com/resources/learn-electronics/magnetometer-types-understanding>

Accelerometers: <http://www.sensorwiki.org/doku.php/sensors/accelerometer>

Kalman Filter: <http://www.bzarg.com/p/how-a-kalman-filter-works-in-pictures/>

BUSINESS MEETING

Call to Order: At 2024 by Vice-President Erich Munzer.

Minutes: Motion (Van Dijk/Novak): that the Minutes of the 14 February 2017 General Meeting be adopted.
Carried.

Visitors: Two visitors from Trilogy Avionics attended--Jin Lawrence and Parminder Raikmi.

Correspondence: No new mail.

Financial Report: Tom reported that as of 7 March, we have \$13,800 in the bank (chequing and shares), our income this year to date is \$15,700 and our expenses to date are \$16,300. To date, expenses have exceeded income by \$561 (all figures rounded). We will be able to pay the rest of the engine overhaul charge.

New & Ongoing Business

Membership: Dues are now due. To date, 34 members are paid. For RAAC (National) members, dues are \$40; non-RAAC members \$55 (\$15 goes to RAAC for insurance coverage at Chapter functions).

Annual Awards Banquet:

The Banquet is on Saturday 25 March 2017 at \$45 per person. 1800h Cocktails and Cash Bar, 1900h Traditional Roast Beef Buffet, Awards and Speaker following dinner, Town and Country Inn (Hwy 17 at Hwy 99).

Door prizes include 1-hour in 777 simulator, CO2 detectors, and more.

Guest Speaker - Joe Hessberger, COPA BC Director, Helicopter and Fixed-Wing Pilot, World Sailor Extraordinaire.

Erich passed out nomination forms, *Award Nominations for Awards*.

750 Cruzer Project:

The fuel pressure gauge, fuel flow gauge and the fuel pump are installed on the fire wall and the gascolator is in place. Work continues on the aluminum connections from the fire wall to the wing area. A pitot mount needs to be fabricated. Dynon has a part in their inventory that might work. Erich will be visiting Dynon soon and could check into that option.

The engine is still in Kamloops. Josef said he would pick it up when it's ready.

Committee Reports:

Hangar and Workshop: John reported that all was going good. Someone was spraying paint in the hangar and some overspray landed on Sean's Emeraude. President Peter has written to the membership advising that spraying isn't permitted in the hangar.

Custodian: Hugo reported that all the tools are accounted for. The digital tachometer has been returned. Hugo hasn't been able to make it work and asked that someone else give it a try.

DapCom: John Macready didn't attend. Tom reported, "it's still running."

Newsletter: George didn't attend. He has designed a beautiful brochure for the Banquet.

Program: Sebastien Seykora has a VCR video about Colin Walker to show at the next meeting. Peter Murphy will bring his VCR player.

Announcements:

Awards Banquet: Saturday 25 March 2017, at 1800, at Delta Town and Country Inn. Tickets are \$45 per person. Call Tom Boulanger (604-420-2164) to book them and pay at the door.

The next Delta Pancake Breakfast is on Sunday, 12 March 2017, sponsored by COPA Flight 5 - Boundary Bay Flying Club.

The next breakfast sponsored by RAA Chapter 85 is on Sunday 9 April 2017.

RAA Chapter 85, Sunday, April 9th – Call for Volunteers

Supplies Purchaser (Saturday or earlier)	Terry Johnston
Batter Mixer & Tables (Saturday pm)	John Macready
Open Up and start Coffee	Gerard van Dyk
Cashier and Ticket Issuer	Tom Boulanger
Wait Staff	John de Visser, Alex Mackay, José Font, Peter Whittaker
Pancake Flipper	Eric Munzer
Eggs & Bacon	Bruce Prior or Peter Whittaker
Cleanup	All

Note: The above roles are all interchangeable and new volunteers are most welcome!

Volunteers meet at 8am, have breakfast (free!) and get ready for doors to open at 9am. The breakfast concludes at 11am followed by clean up.

Next Delta Breakfast: Sunday 9 April, sponsored by RAA (yes, that means omelettes!)

Next RAA General Meeting: Tuesday 4 April.

Next RAA Executive Meeting: Tuesday 21 March.

Sunday 9 April at 1200 in RAA Clubhouse.

Motion to Adjourn: Motion (Boulanger/Klassen): that we adjourn. Carried. And we did, at 2113.

Open Workshop: After the meeting members went to the workshop to view progress on the 750 Cruiser construction project.

File: RAAGeneralMeeting7Mar2017R2.doc

bgp/