



**Winnipeg Area Chapter of RAA Canada**

**March 2013**

**Executive**

**President: Jim Oke: - 204 344-5396**  
**Past President: Ben Toenders - 204 895-8779**  
**Memberships: Steven Sadler - 204 736-3138**  
**Secretary: Marissa Selman - 204 792-2107**  
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**Harry Hill - 204 888-3518**  
**Bert Elam - 204 955-2448**  
**Ken Podaima - 204 257-1275**  
**Jill Oakes - 204 261-1007**  
**Tom Stoyka - 204 444-3838**  
**Bob Stewart - 204 853-7776**

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## **CALENDAR OF EVENTS**

**March 21** Digital Assistants - iPads and other electronic devices in the cockpit

**April 18** Project tour being planned

**May 23** Summer plans

## 2013 Membership dues

2013 Membership dues are now due. Please complete the form at the end of this newsletter and make your cheque payable to Winnipeg Area Chapter RAA and mail your cheque to Steven Sadler PO Box 703 LaSalle Mb. R0G 1B0

## Gil Bourrier's Model Aircraft building workshop March 16<sup>th</sup> 9:30 - 3:30

Models, tools, materials and a hot dog style lunch will be provided at Lyncrest Airport. For more information or to register, please contact Jill Oakes at 204 261-1007 or by email at [Jill.Oakes@ad.umanitoba.ca](mailto:Jill.Oakes@ad.umanitoba.ca)

## AirNav Pro Navigation Software

Over the last couple of years I have experimented with a variety of iPad and tablet navigation software packages. There are a lot of good ones out there, but my personal favourite is AirNav. If you take a look at the screenshot below, you can see what you get for about \$60. The software itself is \$30 including all 2D maps. The 3D moving map is another \$30.



The nice thing about this package is you can get a pretty well functioning set of navigation tools for free (AirNav Lite), or for \$30 get the full functioning version with all 2D airspace and terrain maps free. If you want the 3D synthetic vision, the maps are extra. One nice feature of this software is that you pay once. Foreflight and some other packages will not function unless you pay the annual subscription.

The display shown in the picture is an example. It can be set to show a variety of different views. For example, the picture shows a flight plan with the waypoints on the top left, a moving map with a track line and airspace boundaries on the bottom left, and a 3D moving map on the right.

It is a simple matter to move these around or show different information. For example, the 2D moving map can be made larger and put on the right side of the screen or expanded to fill the screen.

In addition, the basic information can be changed. The left display can be altered to show HSI, VSI, VOR, Altimeter, Compass, ADF, or groundspeed. By tapping on the screen more information will be displayed. One tap on the lower left blue airspace tells me that the blue area is Winnipeg Class D airspace with an upper limit of 12,500 ft and a lower limit of 3000 ft.

If I tap over an airport symbol, the airport information displays including runway numbers, surface type (i.e. asphalt, grass, etc), length, frequency, heading to, altitude of runway and more. Flight conditions at airports are shown with a V(fr), I(fr), or (Marginal VFR). A finger tap on the symbol will display the complete METAR and TAF.

One of the real handy features of this software is the ability to make notes directly on the screen. Swipe across the screen with three fingers and a semi-transparent notepad page is dragged across the screen. You can then write ATC instructions, HOBBS time or whatever you want using your finger.

There is not enough space here to describe all the features, so I will only list some of the more useful ones like aircraft weight and balance, automated flight recording, go to nearest airport, terrain avoidance alarms, saved flight plans, direction of flight lines showing where you will be in 2 minutes, 5 minutes, and 10 minutes, user waypoints, simulation mode where you can prefly the route before you start the engine and more.

There are some good YouTube videos showing the AirNav software in action. Check it out to really get a feel for what the software can do. Having said all of that, I would offer some cautions. Using this or any other nav software on an iPad has risks:

- This is not a certified navigation tool, so there is always a risk of inaccurate information, although that risk exists even with a certified GPS, but possibly more so with the non-certified device. I tested this when I flew to the Northwest Territories and back with a Garmin GPS mounted in the plane and AirNav pro on my iPad. I had only one point where the two units disagreed and that turned out to be where the Garmin had a Nav beacon as a waypoint and the iPad had the adjacent airport as a waypoint. In other words, operator error. Bottom line, my experience is that non-certified data was as good as the Garmin. Your mileage may vary...
- The screen on an iPad is pretty bright, but it gets hard to read when the sun is shining directly on the screen. Can be distressing when you are close to the restricted airspace.
- An iPad screen has polarized glass to cut glare. If you are wearing polarized sunglasses the two polarized lenses will interact. The screen will be either easy to read or look completely black depending on which way the screen is rotated. Took me about half an hour to figure that out the first time I flew with the iPad on my lap.
- Keep your paper maps handy. An iPad, a Garmin, or any other electronic device will fail. When your electronics die, there is no need to follow.

*Steven Sadler*

## Women in Aviation



The Winnipeg Area Chapter of the RAA was an active supporter of the Manitoba Chapter of the International Ninety-Nines Women Fly event March 9th at St Andrews Airport. With the help of Winnipeg Area Chapter RAA President, Jim Oke (Chief and Director of Operations), RAA Director, Bert Elam (Director of Safety - Marshalling), RAA Regional Director, Jill Oakes (Coordinator), a core operating team of 15 leaders in the aviation industry and 400 volunteers, including many

RAA and SFC members, 35 pilots and 30 planes plus 1 helicopter from Custom Helicopters, took over 680 women flying for the first time on Saturday March 9th to celebrate International Women of Aviation Week. .... and very few line-ups.

March 8, 1910, Raymonde de Laroche was the first woman in the world to earn a private pilot's license; one year later on March 8th, 1911, the first International Women's Day was celebrated. 100 years later, Women of Aviation Week was established for the week of March 8th, celebrating the historical accomplishments and future aspirations of women in aviation. This year around the world, special events acknowledged and introduced women to the multi-faceted field of aviation. In Canada alone, twelve events were scheduled, including "Women Fly Free" in Manitoba at St. Andrews Airport on Saturday March 9th. In a worldwide friendly-competition, the recreational and commercial aviation industry, universities, flight schools and colleges worked together to attract women to all aspects of aviation-focused careers; prizes for advanced training are available to women introduced to aviation during this event! Manitoba is well positioned to win the world record, introducing more women to aviation and working with more aviation-related organizations than anywhere else in the world. We will know for sure once our Final Report is submitted this week.

Volunteers were eligible for over 100 prizes from organizations committed to a female-friendly aviation community, including:

2. Monday Zumba at Lyncrest Community Club, Lyncrest Airport
3. Thursday YOGA at Lyncrest Community Club
4. Night in the igloo at Lyncrest Community Club
5. Kayak trip from Ganges, Saltspring Island to Chocolate Beach, BC
6. St Andrews Stables' Horsemanship Training Retreat
7. Four single entries to CAHS aviation history film festival, either Thu 30 or Fri 31 May
8. Recycle Everywhere Tote Bags
9. One hour photo session of your pet with Sally Hull
10. 10 week block of Music Pups or Sunrise Music Lessons with Marilyn Hooper
11. Grace's Restaurant coupon
12. One year membership in UPAM
13. Tenderloin roast by Hylife
14. One 2-hour landscaping session with Swiss Alpine Landscaping
15. One Discovery Gliding Flight with Winnipeg Gliding Club
16. One year membership in RAA Wpg Area Chapter
17. One year membership in RAA National and Wpg Area Chapter

### Restricted For Pilots

18. One annual membership in Manitoba Chapter of the Ninety-Nines
19. One year membership in COPA National

### Grand Prizes

1. One night stay at Bridgeview Bed and Breakfast

2. Northway one complimentary seat on regular scheduled service to any of the communities Northway flies to regularly.
3. Grand Prize – One complimentary ticket to anywhere Air Canada flies in Canada

Jill

**2013 Membership Form**  
**Winnipeg Area Chapter RAA**  
 Full \$25

**Required Information**

<b>Name</b>		<b>OFFICE USE ONLY</b>
<b>Mailing Address</b>		<b>Renewal Date</b>
<b>Phone(s)</b>		<b>Chq.      Cash</b> <b>Other</b>
<b>E-mail</b>		<b>Initials</b>
<b>Are you an RAA national member? <sup>(1)</sup></b>		<input type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b>
<b>Do you give permission for your information to be made available to other Winnipeg RAA members?</b>		<input type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b>

**Optional Information**

<b>Do you own an aircraft?</b>	<input type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b>	<b>Are you a member of other aviation groups?</b>	<b>EAA:</b> <input type="checkbox"/> <b>COPA:</b> <input type="checkbox"/> <b>Others:</b>
	<b>Make/model:</b>		
	<b>Registration:</b>		
<b>Are you building or restoring an aircraft?</b>	<input type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b>	<b>What Pilots licences and ratings do you hold?</b>	
	<b>Make and model of project(s):</b>		

**RAA Winnipeg contributes \$15 per member towards the insurance program maintained by RAA national. This program provides liability insurance to cover local chapter events.**

**Please make cheques payable to: RAA - Winnipeg Chapter**  
**Mailing Address: RAA c/o Steven Sadler PO Box 703 LaSalle Mb. R0G 1B0**

1) **Note: The \$15 does not provide membership in RAAC.**