

Carb Heat

Hot Air and Flying Rumours EAA 245 NEWSLETTER Vol 37 No. 4

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April 2007

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Next Meeting:

National Aviation Museum Thursday April 19th at 8:00 PM Vintage Wings of Canada Tim Leslie

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President's Message

It's springtime and things are happening. Here's a sample ...

At our March meeting Claude Roy, Andre Girard and Patrick Vinet were on hand to recount stories of their 2006 Challenger trip through

March Meeting Summary

Southwestern Quebec. The presentation was very enthusiastic and motivating and illustrated the joy of flying and the great people that are

met along the way. Oh for a Challenger...

Builders Workshops.

The second set of builders workshops has begun at the Chapter 245 hanger, and we have already seen videos of fabric covering, fibreglass 101, and

basic and advanced composite construction. Samples of fabric covering were provided by Wayne to examine, and this week various lay-ups were brought in by Cary and Phil for us to marvel over. Check out the topics and schedule in last month's newsletter and be welcome for any that interest you.

OFC Grass Roots Information Day 2007

Cary Beazley and Grantley Este represented EAA Chapter 245 at this year's Grass Roots Information day, held by and at the Ottawa Flying Club on March 31st to show aviation enthusiasts the varied services and interest groups that exist in the Ottawa area. Cary will give some details

either in this newsletter or at the start of the April meeting

EAA Memorial Wall Listing for Gary Palmer

Application has been made to EAA Wisconsin to have Gary Palmer's name added to the EAA Memorial Wall. EAA Chapter 245 members were canvassed by email to suggest inscriptions, after which the executive reviewed the submissions and selected one for the application. The inscription will read:

Gary L. Palmer EAA245 Leader, Mentor, Friend

The EAA Memorial Wall is a perpetual tribute honoring those aviation enthusiasts who have gone west. These special people are memorialized on a beautiful wall constructed of stones brought to Oshkosh by EAA members from all over the world. Each year during

AirVenture, a dedication ceremony is held in this beautiful park-like setting that includes a special tribute and a missing man flyover. When the dates for the dedication ceremony become available I will post them for those of us who would like to attend at Oshkosh.

Carp Airport Update

At the time I am writing this on April 2nd, I have no new information on our lease situation

at the airport. I will provide a verbal update with any new

information at the start of this month's meeting on 19 April.

First Flights

At this point I know of no-one in our chapter who had a first flight in their homebuilt in 2006. If you know of someone who did, please

let me know ASAP so I can ensure that the flight is recognized with full fan fare and celebration at our

June meeting.

Silver Dart Replica – Volunteer Builders Requested

Robert Holmgren, President of The Project North Star Assn. of Canada, attended our March meeting and gave us a very short introduction to what is happening for Canada's centennary (of flight) celebration. He has provided some additional information to me by email, along with a request for assistance. I have included the email below:

"CAPA's (Canadian Aeronautical Preservation Assn.) Centenary plans for the Celebration in 2009 are focused on a coast to coast relay flight, which promises to be marvellous event. What is also in the works is a flight of the Silver Dart, similarly to the way it was done in 1959. Since we don't have a replica available (the Canada Aviation Museum does not want us to use their copy) we need to build one ourselves.

This will require the following:

- 1. Available hangar or shop space for a period of approx. 12 months
- **2.** A group of good craftsmen willing to dedicate themselves to this task for the duration.
- **3.** Money for parts, materials and an engine. Possibly some tooling.
- **4.** A set of plans from which to build it. The search is on. Wladz asap.

Whatever group decides to take this on will gain a good amount of positive exposure.

Why not the EAA, and why not chapter 245?

If you would be so kind to inform your members that we're looking for 10 to 12 of them to take this on, I will continue to deal with items 3 and 4, above. Item 1, we'll deal with a little later.

NB: If hangar/shop space is not readily available, we can make arrangements to have components built in separate locations, and them assemble them here at the CAvM (Canada Aviation Museum).

The 23rd of February 2009 is going to be a BIG day in the annals of Canadian Aviation. I, for one, am very excited about making a contribution to it."

Upcoming Meetings

This month- Tim Leslie, Vintage Wings of Canada

Tim Leslie is the Chief of Flying Operations at Vintage Wings. Some of you will have visited their beautiful new hanger at Gatineau Airport and all of you have seen their outstanding aircraft in flight. Tim will be with us at our April 19th meeting to talk about Vintage Wings, what they have accomplished, what they are doing and what they plan for the future. Be sure to come and talk to the man who

flies those beautiful Mustang, Spitfire and Staggerwing aircraft.

The meeting will start at 8:00PM at the National Aviation Museum, on Thursday, April 19th. Coffee and timbits will be on hand after the presentation.

Ī	19-Apr 2007	Vintage Wings of Canada – Tim Leslie	
ľ	17-May 2007	Papua New Guinea – Ron Pepper	
	16-Jun 2007	Homebuilder Updates: Jeff Whaley, George Skinner,	

Blue Skies,

Martin

Aviation humour

From AVFlash Short Final 13.14a April 2, 2007

Overheard in IFR Magazine's "On the Air"

While cruising at flight levels in a Cheyenne, we heard the following between an American airliner and Miami Center:

American: Center, American Fourteen Eighty-Two looking for higher.

Center: Didn't hear you check in.

American: "First time I've heard your voice. I must've forgot. **Center:** That happens when you're over twenty-six or seven.

American: I hope you're talking thousands of feet.

Center: No, age. Sorry.

Just a reminder (note reduced days)

Chapter members gather for a regular Sunday breakfast at the Kanata Restaurant and Pizzeria at 1027 Teron road in Kanata. If you type "1027 Teron road, Kanata, Ontario" into Google maps you will get a map of the location. Order time is 09:30.

Holidays will also be included. If for some reason this venue is closed (likely on holidays) the fall back location will be Rocking Johnny's 486 Hazeldean Road. This is next to the intersection of Castlefrank and Hazeldean Road on the

south west corner. Type in "486 Hazeldean road, Kanata, Ontario" to get a map of the location Cheers,
Grantley Este
Operations

Aluminium Pop Can Project.

As reported during previous meetings, \$459.50 has been earned for the Club since September 2005. This represents 690 pounds at an average price of about .59 cents per pound. There are few active Pop Can Collectors however well over 75% came from one restaurant. How about more of us bringing a small amount to each meeting. (Many drops fill a bucket). Irving Slone installed a clean plastic Garbage Container along with Plastic Bag inserts at Wong's Palace (2961 Carling Ave. across from the Theatres) where he is a frequent customer. Very good Chinese Food at reasonable prices.)

Do you have a favourite Restaurant who would let you install such a system.

If you can arrange such a site, call Irving at 613-230-2100 office and he will deliver the equipment.

If you live in an Apartment building perhaps your Superintendent would allow you to set up a container.

Irving will provide you with a sign to be placed on the container explaining our request for Pop Cans.

This on going project can be a good source of income for the Club and amongst other things may negate the need to increase membership dues.

Chapter History

The Chapter Executive is trying to collect more

information on the history of the Chapter and is currently looking for any back issues of the Chapter newsletter that you might have stashed away in binders, books, cupboards, book shelves, etc. If you have any past newsletter and would like to donate them to the Chapter archives, please bring them to the next meeting (March 15). If you would like to loan them to the Chapter we will copy them and return them as quickly as possible.
Thanks,
Russ Robinson
Vice President

Gathering Together the Ottawa RV Community

When I decided to build an RV-9A, I was delighted to discover how many others in the Ottawa area are building or flying one of Van's models. My first look at an RV under-construction was at Russ Robinson's shop at an EAA meeting last spring. Once I had made the decision and ordered my empennage kit, I decided I would be well advised to seek-out as many other local builders as I could find, and begin the process of hoarding advice. With every builder I met, it seemed I was introduced to two or three others. I discovered a loosely knit community of local builders. I say "loosely-knit" because the community seemed to be sub-divided into smaller groups, and not everyone knew everyone else.

My desire to coalesce this existing community was purely selfish. Believing firmly in the principle of "strength in numbers", I wanted to create as large a pool of resources for myself as possible, for the inevitable snags I will hit along the way as I build my aeroplane. I also wanted to find as many excuses as possible to go and look at other builders' projects, to fuel my inspiration. In the early fall, Dale and Cathy Lamport seemed to be the communications hub for the loosely-knit Ottawa RV

community, and they kept quite a good list of email addresses. Through the Lamports' list, I extended a plea to the community to think about starting-up a sequence of semi regular meetings, where we could all get together and chat about our projects. My idea was that each meeting could be hosted by somebody with a project at an interesting stage of development, so that we could literally engage in "shop-talk".

The Lamports graciously offered to host the first such "gathering" (successive meetings have come to be referred to simply as "the next gathering"). I didn't take attendance, but at least 20 or so descended on the Lamport shop for a few hours one Saturday afternoon, admired Dale and Cathy's current projects, and talked tirelessly about our own projects. Since then, we seem to be settling into a routine by which one of us hosts a gathering every few months.

It was at the first Ottawa RV gathering that I really realised just how many of us there are in this area building these planes. It was surely going to be difficult guaranteeing that nobody got left out of the loop as we organized future gatherings, and so decided to form an email-list with a single address that we could all use to

communicate. There was some concern about such a list generating too much "spam" email, but when I discovered the security and access settings offered by "Google Groups", this worry proved unnecessary. So

OttawaRV@googlegroups.com was born.

The OttawaRV group now consists of 21 members, and offers us much more than just a convenient email list. There is a members only area on the web where we can each post our own short bio, including our contact information and details of our own project. We can also post documents, photos and any other files that might be useful to other members of the group. While this certainly does not replace the wonderful VansAirForce Forums, it has proven to be very convenient for getting local questions answered (like "where do I get primer in Ottawa?"), borrowing tools, planning gatherings, or just general chitchat with our RV friends.

We are always happy to welcome new members to the *OttawaRV* community, so please email me at phil@c-func.com if you would like to join our webgroup, or attend our next "gathering".

- Phil Kave

One Day Ground School Refresher

Arrangements have now been finalised for our one-day Ground School Refresher to be held at the Carp Flight Academy, Carp Airport FBO Building on Saturday April 28. The course will start at 9:00 am

and run until 3:30 pm after which the attendees can write the PSTAR exam (if so desired). The cost is \$53 for the ground school, lunch and the PSTAR exam. Please register directly with Carp Flight Academy by phone or email. For those who put their names on the sign up sheet at the February meeting, please reregister with CFA. Russ Robinson

Biplane wing position and effect on drag

Submitted by Nathan Aligizakis

This it to help resolve or add fire to the dispute that biplane stagger or any type of longitudinal offset of lifting wings has no benefit on induced drag i.e. "drag due to lift"; ignoring other factors. Since drag due to lift is dominant at low speeds, this means there is virtually no benefit in airplane efficiency at low speeds by increasing longitudinal spacing for a canard or tandem wing, or stagger on a biplane for example.

http://www.desktopaero.com/ap pliedaero/potential3d/induceddr ag.html

"Munk's Stagger Theorem
The result that the drag of a
lifting system depends only on

the distribution of circulation shed into the wake leads to some very useful results in classical aerodynamics.

Perhaps the most useful of these is called Munk's stagger theorem. It states that: The total induced drag of a system of lifting surfaces is not changed when the elements are moved in the streamwise direction.

The theorem applies when the distribution of circulation on the surfaces is held constant by adjusting the surface incidences as the longitudinal position is varied.

This implies that the drag of an elliptically-loaded swept wing is the same as that of an unswept

wing. It also is very useful in the study of canard airplanes for which the canard downwash on the wing is quite complicated. Moving the canard very far behind the wing does not change the drag, but makes its computation much easier. One may use the stagger theorem to prove several other useful results. One of these is the mutual induced drag theorem which states that: The interference drag caused by the downwash of one wing on another is equal to that produced by the second wing on the first, when the surfaces are unstaggered (at the same streamwise location)."

http://www.desktopaero.com/appliedaero/preface/welcome.html

The Fireside Workshops at the EAA 245 Hangar SERIES 2 - Spring 2007

April 08 Easter Weekend - Holiday - No Workshop

April 15 Aircraft Painting – Sam James ~ 2hrs

An excellent 2 hour video in which Sam James takes you, in detail, through the finishing, priming, and painting of his RV-4 with the Dupont Veriprime and Chromabase systems. This video is not as slickly produced as some others, but the vast quantity of practical information it contains more than makes up for it. In it Sam takes you

the complete process of working an RV fuel tank, wheel pant, and detailed design on a horizontal stabilizer. By the producer of Fiberglass 101.

April 22 Weight and Balance for your Homebuilt ~ 90 mins.

This DVD is specifically designed to teach the experimental aircraft homebuilder who is not comfortable with weight & balance concepts how to perform the required weight & balance calculations for their aircraft. It is a great refresher course for those who have previously worked with weight & balance as part of pilot training

It is made easy for you to understand the concepts required to perform your own weight and balance analysis on your aircraft and then document the findings for the inspection process.

Some of the highlights of this DVD include:

What weight & balance is and WHY it is so important

What the dangerous effects of overweight or out of balance conditions have on aircraft performance

How often do weight and balance calculations have to be performed

How to weigh your homebuilt aircraft

How to determine the center of gravity (CG) location on your homebuilt

What calculations and mathematical formulas are required

Demonstrations of weight & balance calculations for a typical homebuilt

How to understand and fill out weight & balance worksheets for your inspection process

Typical loading scenarios that your inspector wants to see documented

What documentation has to be carried in your aircraft at all times

Computer spreadsheet demonstration for 'what if' loading scenarios

Methods for calculating the adjustments of your load to achieve proper balance

Questions and answers from students regarding common weight & balance issues

And -- First Flight in Your Homebuilt - EAA ~ 23 mins.

Learn the importance of careful planning, what to do to make a test flight go smoothly, and what to do if problems arise. The initial flights in any aircraft can be a challenging and rewarding experience - if the preparation has followed time-tested principles.

Mark your Calendars:

Some items have been copied from the COPA Flight and the EAA website.

April 10, Haliburton/Stanhope, ON: (CND4) Our annual Safety Seminar will feature special guest David Arama of WSC Survival School. He will give comprehensive talk Pilot on Wilderness Survival. david@wscsurvivalschool.com Stanhope Fire Fighters' Hall at 7 pm. Cost is \$5. For more information contact John Packer at 705-754-2611.

April 14, Cornwall, ON: Kevin Psutka will address the Cornwall Flying Club COPA Flight 59 about current issues in aviation. Doors open at 8 a.m. Everyone welcome. For more information contact Earle DePass, Director, Communications & Advertising Cornwall Flying Club (COPA Flight 59) at 613-930-2145, 613-998-9992, email earfran@cogeco.ca or visit www.cornwallflyingclub.org.

April 17-23, Lakeland, FL: The 23rd Annual Sun 'n Fun Fly-in kicks off another fair-weather flying season. For more information visit: www.sun-n-

fun.org or call 863-644-2431.

April 29, Carp ON: One Day Ground School Refresher. For more information contact Carp Flying Academy call at (613) 839-0666.

May 03, Ottawa, ON: Transport Canada, System Safety presents the Making Waves Aviation Seminar at the Canadian Aviation Museum Bush Theatre from 7 p.m. to 10 p.m. This FREE safety seminar will cover information for the general aviation community. Topics to be covered include: Float Flying,

General Piloting Skills, For more information on this seminar please contact, Terrence Satens, Civil Aviation Safety Inspector, Transport Canada 807-474-2597. Attending a Transport Canada safety seminar is an option in meeting CARs currency requirements

http://www.tc.gc.ca/civilaviation/general/personnel/current.htm.

May 5, Oshawa, ON: Free Rust Remover seminar from 8 a.m. to 2:45 p.m. Sessions are free but lunch is \$10. Presenters include Transport Canada, Nav Canada, Bill Davidson: insurance broker and Skip Labelle from the Canadian Flight Academy. Lunch will be served to only those who register by April 29. For preregistration or information contact Wayne Ellis at 905-434-6897 or email

copa70seminar@hotmail.com.

5-6. May Haliburton/Stanhope, ON: (CND4) **Pancake** breakfast/brunch/lunch. Start the summer flying season with a trip to one of Ontario's prettiest airports. For more information and current weather contact John Packer at 705-754-2611. email airport@halhinet.on.ca visit or http://stanhopeairport.com.

May 19-21, Toronto, ON: The RAA Toronto chapter will be hosting the Zenith Zip 2007 at the Brampton airport. This event will appeal to all Zenith owners and enthusiasts, as well as to everyone who "would rather be flying"! Activities include lunch, construction and workshops, technical pilot recurrency workshop, exhibits by the sponsors, tire-kicking, BBQ dinner and social. Event is on Saturday, Sunday or Monday as a rain day. Possibility of lodging locally or camping under the wing. For more information contact Pierre Tanguay at 613-687-0037,

email pierre12@magma.ca or call Alain Ouellet, 905-458-5424 aouellet@icecanada.com.

May 20, Peterborough, ON: Ontario Flying Farmers' fly-in at the home of Gale and Mike Gray. For more information contact the Grays at 705-295-6606 mggray@nexicom.net.

May 26, Ottawa, ON: AYA Region #13 event - The second annual Ice Breaker at the Ottawa/Rockcliffe airport between 10 a.m. and 2 p.m. Local AME Steve Farnworth will present a seminar on Engine Maintenance for your Lycoming starting at 1300 hrs. Start the 2007 flying season at Tony's BBO at Ottawa/Rockcliffe (CYRO) and catch up with other Grumman owners. Contact Ruth Merkis-Hunt, AYA region #13 director 613-523-6014 or email ecanada@ava.org for more information.

May 26, Westport, ON: Breakfast fly/splash-in hosted by the Rideau Lakes Flying Club. Breakfast of ham, eggs and baked beans from 8 a.m. till 1 p.m. Transport from the Aerodrome, Waterfront, downtown available. Located at N44 40.012, W076 23.799 using 123.2 for communication.

June 2,3, Edenvale, ON: Edenvale Aerodrome, Spring Fly In and Grand Opening. Come out to see the latest improvements to the airport. This full weekend event will include BBQ lunch and refreshments, live entertainment, beer tent, vendors and intro/demo flights in the Sport Star and Sky Arrow. The Collingwood Classic Aircraft Foundation will be having and Open House to display their new hangar, and rides in CCAF aircraft, including the Tiger Moth, will also be available. For more information, www.edenflight.com., or www.classicaircraft.ca

June 2-3, Haliburton/Stanhope, ON: (CND4) Young **Eagles** weekend. Help us give local kids the thrill of flight or fly with one of your local kids up to see us! For more information and current weather contact John Packer at 705-754-2611. email airport@halhinet.on.ca visit or http://stanhopeairport.com.

June 3, Smiths Falls, ON: The Smiths Falls Flying Club welcomes all fly or drive in guests for the annual fly-in breakfast. 24 hour fuel. Come see our new club house. For more information contact the flying club at 613-283-1148 or visit www.smithsfallsflyingclub.com

June 6, Ottawa, ON: Canada's Aviation Hall of Fame annual induction ceremony and dinner will be held at the Canada Aviation Museum. Rockliffe Airport (YRO)at 6 p.m. Inductees are Stanley Deluce, Craig Dobbin, Harvey Hitchins and the Canadian **Business** Aviation Association. **Tickets** and tables can be purchased through "Special Events" scroll-down at www.CAHF.ca; email at CAHF@telusplanet.net. calling the Hall at 780-361-1351 ext 241.Recognize and support those who made significant contributions to aviation and aerospace in Canada.

June 10, Cobden, ON: COPA Flight 124, Champlain Flying Club hosts their annual fly-in breakfast from 7 a.m. to 11 a.m. CPF4 in the Supp. For more information contact Larry Buchanan at 613-638-2792 or email lbuchan@nrtco.net.

June 10, St-Lazare, QC: Annual fly-in breakfast from 8 a.m. to 11:30 a.m. hosted by the St-Lazare Aero Club. For more information contact Mike Boisvert at 450-452-2018.

June 10 Kars ON: RAA OTTAWA-Rideau Chapter 4928 Annual BBQ at the Rideau Valley Air Park. 10:00 to 2:00 Contact Harvey Rule (613)739-5562 harvey.rule@bell.ca

June 16-17, Carp, ON: AYA Region #13 event - Arrive in the morning, depart after the show. Carp airshow and Grumman Flyin. We have a place reserved on the airfield for Grumman owners to park their aircraft, watch the airshow and show off your Grumman to the general public. Come to either day of the show or both! Ottawa / Carp (CYRP) is located just west of Ottawa. Don't forget to check NOTAMs for arrival time restrictions. Contact Ruth Merkis-Hunt, AYA region #13 director 613-523-6014 or email ecanada@aya.org for more information.

June 22-24, Oshawa, ON: The Canadian Aviation Expo, Canada's largest aviation trade show and flyin. For more information visit: www.canadianaviationexpo.com or call 800-776-5976.

August 12 Carp, ON: EAA 245 annual Breakfast Fly-in at CYRP (east end). For information visit: http://eaa245.dhs.org/ or call Barry Hall at 613-226-8731

FOR SALE

Place your ads by phone with Bill Reed 613-831-8762 or e-mail to bill at ncf dot ca

Deadline is first of the month. Ads will run for three months. You may request a two-month extension. Please let me know if any of the articles have been sold.

For Sale \$15,000.

VOLMER: AMPHIBIAN Unfinished – fuselage almost done and primed. All cables for motor, tail feathers, all instruments, gear etc. in place. Aeronca Wings have to be rebuilt. New Ceconite for wing and tail feathers ready for covering. Lycoming 0290D engine 0 time, needs mags and carburetor. New gaskets, seals and SS flanges (\$2,000 worth of new parts and coverings). Motor brackets and mounts included. Asking \$15,000 obo. No reasonable offer refused.

03/07 Call Jerry at 613-525-4532 or email:

jerryadams247@hotmail.com





For Sale \$20,000

KITFOX - inspected, covered, ready to paint. Rotax 582. VFR panel. Paint and everything to complete as ultralight or experimental. Trailer included. 04/07 Call Bill 613-259-2605

For Sale	\$225.
Garmin GPS III pilot	
04/07 Call Bill 613-259-2605	

For Sale	\$200.
David Clark H 10-40 headsets	
04/07 Call Bill 613-259-2605	

Articles wanted

I am always interested in receiving submissions for this, your Newsletter. You may bring articles to the monthly meetings, or mail information to the post office box, or email bill at ncf dot ca

Newsletter Deadlines

Deadlines for articles and for sale/wanted ads will normally be 3 weeks before the next meeting.

A short example follows:

Meeting date - 2007 Newsletter deadlines

March 15th — Mar 1st

April 19th — Apr 4th

May 17th — May 3rd

June 16th — Apr 2nd

July 14th — June 30th

August — no newsletter

September 20th — September 6th
October 18th — October 4th
November 15th — November 1st

December — Jan (December shifted to January 2008)

Meeting date - 2008 Newsletter deadlines

 $\begin{array}{lll} \text{January } 17^{th} & -\text{Jan } 3^{rd} \\ \text{February } 21^{st} & -\text{Feb } 7^{th} \end{array}$



EAA Chapter 245 Membership Application

-	DATE://
EAA NUMBER	
EXP Date://	
NAME:	
ADDRESS:	·
CITY/TOWN:	
PROV:	PC:
	H ()W
EMAIL:	
DISTRIBUTION Preference	ce: email post
AIRCRAFT & REGISTRA	ATION:
OTHER AVIATION AFFI	LIATIONS:
COPA: RAA:	
OTHER:	
	st to December 31st. (prorated after new members/subscribers).
Newsletter subscriber	: \$35.00 Newsletter only
	: \$35.00* Newsletter plus hapter facilities
w	: \$70.00* Newsletter, hangar, orkshop, tiedowns. (Note: there is a ne time \$200 initiation fee when you ecome a Full Member)
*Note Associate and full EAA's parent body in	l members must also be members of Oshkosh WI, USA

Make cheque payable to:

EAA Chapter 245 (Ottawa)

Mail to - P.O. Box 24149, Hazeldean R.P.O., Kanata,

Ontario, K2M 2C3