



# Carb Heat

Hot Air and Flying Rumours

EAA 245 NEWSLETTER Vol 39 No. 01

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P.O. Box 24149 Hazeldean R.P.O.,  
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## Next Meeting:

### **Bush Theatre at the National Aviation Museum**

**Thursday January 15<sup>th</sup> at 8:00 PM**  
**George's Zenith Zodiac (CH601)**  
**by George Skinner**



Centennial of Flight Symbol

## January 2009

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|                                |                   |              |   |
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## *President's Message*



A very Happy New Year to you all. It looks like this will be a good flying year for many of our members as we have seen a number of aircraft completions recently, with several more expected this spring. We look forward to hearing all about the exploits over the course of the year.

Starting this month, we will be meeting again at the Aviation Museum in the Bush Theatre at our regular time of 8:00PM, and will continue to meet at the museum for the rest of our meetings this winter and spring.

### **November Meeting**

At our November meeting Mark Briggs provided a wealth of information on 406MHz ELTs and what our alternatives for ELT usage are. Mark has since installed several of the 406MHz ELTs and will be installing more over the course of the year. At this point the requirement for

installation of the new ELTs is not yet implemented, but we will try to keep you informed on new happenings. Thanks Mark for taking the time to educate us!

### **Air Cadets Fly Day**

The fall fly day scheduled by Air Cadet Squadron 872 had a couple of bad weather days but was at last successfully held on November 29<sup>th</sup>.

### **Breakfast at CYRP**

For the past two months we have been gathering at our hanger at CYRP on Sunday mornings for a "potluck breakfast". The lucky attendees have started their day with egg muffins, waffles, sticky buns, cinnamon buns, crepes, sausages and toast, but not all on the same day!

We intend to continue to meet for breakfast throughout the winter and into the spring. All

are welcome to come out between 9:30 and noon.

### **Fireside Workshops**

We will be holding another series of Fireside Workshop DVDs this winter. The first will be held on 18 January and will cover military aviation in Canada. A schedule of the DVD's to be shown is given later in this newsletter. If you have any requests for DVD's or videos that you would like to have shown during the series, please contact Wayne Griese or Martin Poettcker. Thanks to Wayne for again providing the organization and DVD's.

### **Upcoming Meetings**

At our January meeting George Skinner will recount his experiences building, testing and flying his Zenith Zodiac.

The next regular meeting will be held at 8:00PM on

Thursday, January 15<sup>th</sup> in the Bush Theatre at the Canada Aviation Museum

|                  |   |
|------------------|---|
| 15 January 2009  | George's Zenith Zodiac by George Skinner (at Aviation Museum) |
| 19 February 2009 | Canada's Aviation History told through Art, by Chris Terry    |
| 19 March 2009    | TBD   |

Hoping to see you all at the January meeting, and as always-

Blue Skies,

Martin

**Aluminum Pop Can Recycling Program**

As most of you know Irving Sloan has been running an aluminum pop can recycling program on behalf of the

**Local News**

Chapter for more than a year. All funds raised are donated to the Chapter to cover our operating expenses. Please donate your pop cans to this program, either by dropping them off at the Chapter hanger

at the Carp Airport or by bring them to the Chapter meetings at the Aviation Museum – let’s all support Irving’s work.

**Local News**

**Volunteers needed to help the NAM celebrate the 100<sup>th</sup> Anniversary of Flight**

On Sunday Feb 22 the Aviation Museum will be celebrating the 100th Anniversary of Flight in Canada with a number of special activities at the Museum. The Chapter has volunteer to assist

with the celebration by organizing the wooden wing rib building activity for kids - the same we did a few years ago. The Chapter needs a few volunteers to help out with the set up and demonstration. If you can spare a

few hours on Feb 22 to help out, please let me know - at the meeting or by email. Russ Robinson (russ dot robinson at sympatico dot ca)



**Photo 1 Andrew Phillips new RV7A with the restrictions flown off Photo by Bill Reed**



**Photo 1 Alfio Ferrara flying off his first 25 hours on his RV9A Photo by Bill Reed**

**CHALLENGER WINTER RENDEZVOUS - JANUARY 30 - FEBRUARY 1, 2009**

The 19th Annual Challenger Winter Rendezvous will be held at Chateau Montebello from January 30 through February 1, 2009.

All Challenger owners and fans are cordially invited. For those of you new to the Challenger community, the

Rendezvous typically attracts well over 200 attendees from across the length and breadth of Canada as well as from the United States. In the middle of winter there have been 36 Challengers on skis parked together outside the Chateau! This has become the premier fly-in / drive-in event of the Canadian winter.

The Rendezvous is a wonderful opportunity to look at Challengers close up, exchange information, tell flying tales and socialize with fellow owners and enthusiasts. The Chateau Montebello is the world's largest and most spectacular log cabin, known around the globe for good reason: the food is gourmet, the rooms

luxurious and the ambiance magnifique. Bring your spouse and family for a mid-winter escape from cabin fever!

Full details from agenda to logistics on the Rendezvous are on the Challenger web site - <http://www.challenger.ca>

scroll down the left hand column on the home page past the 25<sup>th</sup> info and voila.

**EXHAUST – from the Carb Heat Archives 20 YEARS AGO January 1989**

The Hangar Project” during the winter of 1988/1989 apparently got out of hand. Hangar group members kept turning up for work, Doug Richardson kept

ordering supplies and soon, only a dozen or so bone-chilling, eye watering, finger-freezing weekends later they were finished. Here are a couple of

photos from our archives showing the uprights being planted.





## Vintage News

### Happenings @ Vintage Wings of Canada

Since my November column, Vintage Wings has performed a couple of small miracles and a number of key milestones.

#### **Hawk One Transformed.**

Number one on the list would be Paul Kissman's successful ferry flight of Hawk One to Cold Lake AB for application of the Golden Hawk paint scheme. Paul departed Gatineau on Friday, 21 November and with a few minor technical glitches (Odd engine sounds and a transponder failure) arrived in Cold Lake at 1530 hours local time. Hawk One was met and escorted by a CF-18

Hornet from 4 Wing with Aeronautical Experimental Test Establishment photographer Cpl.

Jennifer Chiasson on board who captured Paul's arrival in the photo below.



**Photo 2 by Cpl. Jennifer Chiasson**

Transforming C-GSBR from its temporary ugly ducking paint scheme into the memorable Golden Hawk Team colours was a labour of love. Led by Master Corporal Craig Harris, a No. 1 Air Maintenance Squadron team which included Jim Belliveau, one of North America's best aviation paint scheme designers and painter, created a 21<sup>st</sup> century Golden Hawk. For the full Cinderella story of this transformation visit the Hawk One web site: [www.hawkone.ca](http://www.hawkone.ca) under "Recent Posts".



**Photo 3 Golden Hawk Sabre Photo credit DND**

**Stocky Edwards "Kittyhawk"**

**Arrival**

Number Two takes place on the other side of the world in New Zealand. In an equally challenging project, Pioneer Aero is in the final stages of building a brand new Kittyhawk III. Built around the original data plate from former RAAF Kittyhawk "Come in Suckers" this aircraft was salvaged from it's WWII category one accident site in Papa New Guinea.

Managed by Air Canada pilot Dave Hadfield, brother of



**Drawing by Dave O'Malley**

astronaut Chris Hadfield, this Vintage Wings project will result in a fitting tribute to Canada's third highest scoring ace and

Kittyhawk pilot, Stocky Edwards, "The Desert Hawk" - Wing Commander Ret'd.



**"Come in Suckers" Circa 1945**

**Stocky Edwards**



Dave Hadfield reports: *The aircraft is on its own wheels now, which is a very big step. All the control runs are being completed, and the engine should fire up for the first time beyond the test stand very soon. We still don't have a firm first-flight date, but progress is steady. We're close enough to the end that we're arranging a shipping contract, so light is appearing at the end of the tunnel!*

On a visit with Pioneer Aero last year, Dave took the following photograph of the Kittyhawk's

Allison Engine at last mated to the fuselage.



**Photo 4 Allison Engine mated to Kittyhawk fuselage by Dave Hadfield**



**Bob Fassold's Chipmunk Restoration**

With Hawk One out the door, Bob Fassold's Chipmunk restoration is back on track and is receiving more manpower to complete reassembly. The wings of this former RCAF advanced trainer arrived in December after being inspected and recovered.

Formerly owned by Elvy Smith, the Pratt & Whitney VP of Engineering who lead the renowned PT-6 gas turbine engine development team, this Chipmunk

also has a unique connection with it's manufacture, deHavilland of Canada. George Neal, long time company test pilot not only test flew this aircraft but also worked on its assembly



**Photo 5 Wings Arrive for RCAF Chipmunk 025 Photo by Don MacNeil**

**Westland Lysander Inspection & Flight Preparation**

As reported last month, former RCAF Lysander 2365, and painted as a target towing tug has been undergoing a skin-off inspection. Now is a great time to visit Vintage Wings and see first hand how one of these complex aircraft were engineered for their specialized army observation role which involved short take off and landing from forward operating locations near enemy lines. Lysander manager and pilot Rod Erdos reports: *"We confidently expect the Lysander to fly this summer. The engine is undergoing overhaul at Aeroplane Restoration Company (ARC)*

*in Duxford, UK. Work is progressing, and we hope to receive it at VWC by late-April.....We are refurbishing the electrical system, avionics, fluid lines and brakes. The brakes might be a problem, as they are old-fashioned bladder brakes, and parts are nearly impossible to find. The instruments and prop have gone out for overhaul. Everything should converge for a flight in (hopefully!) May or June."*



**Photo 6 Lysander Wing by Don MacNeil**



**Photo 8 Sister Ship Lysander 2307**



**Photo 7 Lysander Restoration Photo by Don MacNeil**

## Fairey Swordfish Flight Preparation

The String Bag's return to flight has suffered protracted delays owing to the unavailability of sodium-filled exhaust valves for it's Bristol Pegasus engine. A vendor has been secured to manufacture the valves in the UK, but the delivery is scheduled for late summer. This engine is in the UK, essentially complete

following overhaul, but awaiting these last few parts.

## Spitfire & Hurricane

Sir James Rob's Spitfire, SL721 and the only Mark IV Hurricane flying in the world today are both undergoing winter annual inspections in anticipation of a busy 2009 show season. They will join the 442 Squadron Memorial Mustang IV and the Hampton Gray Memorial Corsair IV in

Victory Flight, a VWoC formation display team. We are currently scheduling appearances at a number of shows over the summer. Oh the sound of those engines at full throttle!

## 2009 Vintage Wings Open Houses

- Saturday, June 6th-D Day
- Saturday, September 19<sup>th</sup>



**Photo 9**Canada Day 2007 – Author telling the story of the Mk. XVIe Spitfire, SL-721.

Please feel free to contact me with any questions about Vintage Wings at the following email address: [dmacneil@vintagewings.ca](mailto:dmacneil@vintagewings.ca)

Don MacNeil

Historian - Vintage Wings of Canada;

EAA Member;

Canada Aviation Museum Volunteer

## The Fireside Workshop DVD Series - 2009

### EAA Chapter 245 Lounge Carp Airport **Everyone Welcome**

#### Sunday, January 18<sup>th</sup>, 2009

"ON CANADIAN WINGS" is the definitive history of military aviation in Canada on video. Produced for Canadian Forces Air Command, it features dramatic in-flight footage and some unseen historic footage from Canadian operations around the world.

An international award-winning video, On Canadian Wings traces the development of the air force from the shaky take-offs of the Silver Dart in 1909 and the daring exploits of wartime flying aces, through the saga of the Avro Arrow, right up to the frontline operations of the air force today.

#### Sunday, January 25<sup>th</sup>, 2009

#### **Building experimental aircraft made of wood**

Learn the basics of wood construction for building your own experimental aircraft. Designed for the beginner in wood aircraft construction, with explanations and demonstrations of working with and selecting the proper wood stock required for aircraft building. If you have wondered what skills and equipment is necessary to build an aircraft from wood, this DVD provides a great introduction to this knowledge!

#### Sunday, February 8<sup>th</sup>, 009

#### **Deep Inside your Rotax 2 Cycle Engine**

Alan Laymon, owner of Solo Aviation, an authorized Rotax repair station with 10 years of experience with 2 cycle aircraft engines, explains in clear language at each step of his inspection process as he disassembles an engine. You can now see and understand what procedures are involved with the 150 and 300 hour inspection/rebuild services. Alan points out the places carbon accumulates, where the common areas of wear occur, and other signs indicating the possibility of potential failures. The specialized Rotax engine tools are demonstrated as to their function in removing various internal components. Installation and



maintenance tricks are also demonstrated and explained for the purpose of heading off future engine failures that can lead to disaster.

### Sunday, February 22<sup>nd</sup>, 2009.

#### **The ARROW**

"Building The Arrow" Follow the Arrow's progression from the drawing board to the roll out ceremonies. See in detail how the Avro CF-105 Arrow was built as it moved down the assembly line. Produced from original Avro Aircraft colour film footage. Coverage includes the Arrow's design, construction of wooden and metal mock-ups, building on the assembly line, construction of all major components and their assembly into a complete Arrow. Colour, 48 minutes.

"Testing The Arrow Design". Wind tunnel and free flight models were used extensively in testing and refining the Arrow design. This video shows the construction and use of these high precision models. Eleven free flight models were launched between 1954 and 1957. Nike rocket boosters were used to launch nine Arrow models. Colour, 31 minutes.

"Avro's Flying Saucer". The Story of Avro's experimental "flying saucer", the Avrocar. It was the result of Avro research into vertical takeoff and landing (VTOL) aircraft. Research and development started in the mid 1950's but development was cancelled in 1961 after flight stability problems could not be

overcome. Rare footage includes: design and construction of the craft, wind tunnel tests, and many of its tethered and free flight tests. Colour, 25 minutes.

### Sunday March 8<sup>th</sup>, 2009

#### **The Annual Inspection – Power-plant**

Annual Inspection for Power-plants: Follow A&P/IA instructors Tim Guerrero and Vaughn Dowell through a step by step demonstration of a 100 hour inspection of the power-plant section of a Lycoming 0-360 powered Piper Archer. This video explains every segment of the inspection process from an initial AD search to the final log entries. It details each procedure along with the techniques, tool and material usage, and plenty of professional hints and tips. Although written for the A&P student, this film is equally applicable for the experimental aircraft owner needing to perform his/her own condition inspections, and the certificated aircraft owner simply wanting a better understanding of the inspection process.

A final 5 minute sequence covers safety wiring techniques with demonstrations of various related applications including propeller bolts, the alternator tension bolt, and the oil filter. 55 minutes

### Sunday, March 15<sup>th</sup>, 2009 (Tentative)

#### **Repairing Structural Tubing**

A vintage training film produced by the U.S. Department of Education demonstrating the inspection and repair of 4130 Chromolly steel tube airframes. In

the film, a truss tube is found bent and set back into shape with forms and clamps. Then a longeron is found to be cracked and so the section is replaced with a welded inner sleeve and splice. Although this is an older film, the methods demonstrated are still appropriate and valid when maintaining or restoring these vintage tube and fabric type airframes.

This class teaches measuring, geometry, straightening, cutting fish mouths, fitting, splicing, and welding to repair some fuselage damage. 22 minutes

### Ups and Downs of Takeoffs and Landings

Whether a seasoned pilot or a new student, this video has much to offer. Covers short and soft field operations, crosswinds, climb out performance, night operations, POH performance specifications and density altitude. Also view actual landings as they occurred at a large fly-in. Color, (1 hr.)

### The Bush Angels

This video is about The Canadian Bush-plane. The Bush-plane Heritage Centre in Sault Ste. Marie, Ontario is dedicated to preserving the history of Bush Flying and Forest Protection in Canada. Volunteer members actively acquire, restore, preserve and display floatplanes, bush-planes, water-bombers, and forest fire-fighting equipment along with other aviation and forestry-related artifacts in order to celebrate the achievements of Canada's aviation and forest fire fighting pioneers. 20mins.

## Mark your Calendars:

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

**Picton, ON:** Breakfast on the second Sunday of every month - starting in April (call for runway conditions during winter) at the Prince Edward Flying Club - Picton Airport (CNT7). For more information call 613-399-9076..

### JANUARY

**Sunday, January 18<sup>th</sup>, 2009**  
**Fireside Fireside Workshop in the chapter 245 lounge at the Carp Airport**

**Sunday, January 25<sup>th</sup>, 2009**  
**Fireside Fireside Workshop in the chapter 245 lounge at the Carp Airport**

**January 30- February 1st , Montebello, Quebec :** 19<sup>th</sup> Annual Winter Weekend Rendez-Vous at Château Montebello. Organized by the Canadian Branch of the International Challenger Owners Association (ICOA), this premier winter event is for all ski-equipped airplanes to gather in an ideal winter setting for the whole family to enjoy. For more information, call Claude Roy, Director, ICOA Canada, at Tel.: 613-836-7243 or by E-mail at [arm-roy@cyberus.ca](mailto:arm-roy@cyberus.ca).

### FEBRUARY

**Sunday, February 8<sup>th</sup>, 2009**  
**Fireside Fireside Workshop in the chapter 245 lounge at the Carp Airport**

**February 14th, Westport, ON, (CRL2):** Rideau Lakes Flying Club, Ski Fly in with Chili and a bun from 10:00 am till 2:00 pm. Transport from the Aerodrome / downtown

available. Located at N44 40.012, W076 23.799 using 123.2 for communication. Subject to runway conditions. Contact # 613-359-9951.

**February 15th, Cobden, ON:** COPA Flight 124, Champlain Flying Club hosts their annual "Ski Plane Only" winter fly-in from 10:00 a.m. to 14:00. CPF4 in the Supp. For more information please contact Larry Buchanan at 613-638-2792 or email [lbuchan@nrtco.net](mailto:lbuchan@nrtco.net).

**February 20th-24th, Baddeck, NS:** Centennial of Flight will celebrate the flight of the Silver Dart Centennial Anniversary and a National Aviation Art exhibit. Visit our website [www.flightofthesilverdart.ca](http://www.flightofthesilverdart.ca). For more information please contact Leanne Beddow at 902-488-3256 or email [lj.beddow@ns.sympatico.ca](mailto:lj.beddow@ns.sympatico.ca).

**February 21st, Hawkesbury, ON:** Hawkesbury Flying Club / COPA Flight 131 invites you to join us celebrating 100 years of flight in Canada. Skiplane Fly-in (or drive in) for a "Sloppy Joes" lunch at noon. Located at the Hawkesbury East Airport PG5. For more information please contact Steve Farnworth 613-632-3185 or email [HawkesburyFlyingClub@gmail.com](mailto:HawkesburyFlyingClub@gmail.com).

**February 21st-22nd, Haliburton-Stanhope (CND4), ON:** First Flight Fly In. Come help celebrate the Centennial of Canadian Aviation History. 100 years ago, John McCurdy flew the Silver Dart over Bras D'Or Lake in Nova Scotia. Fly over the frozen lakes of Ontario and enjoy a cup of hot chocolate and some hot chili. Call John Packer at 705-754-2611. Visit our

website for information and current weather [www.stanhopeairport.com](http://www.stanhopeairport.com) or email [airport@halhinet.on.ca](mailto:airport@halhinet.on.ca).

**Sunday, February 22<sup>nd</sup>, 2009**  
**Fireside Fireside Workshop in the chapter 245 lounge at the Carp Airport**

**Sunday, February 22<sup>nd</sup>, 2009**  
**Volunteers building wingribs at the National Aviation Museum.**  
**Contact Russ Robinson**

**Samedi, 28 Février, 2009**

**Fly-in Chez MO (Tous les jours)**  
Maurice prud'homme célèbre le 20 anniversaire de son RVA, le 30e de l'APBQ et le 100e du premier vol...

**Info Contact :** Maurice Prud'homme 819-682-5273

**February 28th, Ottawa River, 5km NW Aylmer, QC:** Fly-in chez MO 2009. Come Celebrate: Mo's fly-in turns 20, Canada first flight 100 years ago and the 30th anniversary of the APBQ. For more information you can call your host Maurice Prud'Homme at 819-682-5273 or click [here](#).

### MARCH

**Saturday 7 March 7th, Kars, (CPL3) ON:** RAA Chapter 4928 Fly In / Ski In, Come out and join us, we are 3 miles to the North of town of Kars Ont. Refreshments and lunch available. Co-ordiantes Latitude N (45 06) Longitude W (75 38). For more information please contact Victor Thompson 613-269-7952 or [Thompson.VJ@forces.gc.ca](mailto:Thompson.VJ@forces.gc.ca).

**FOR SALE**

Place your ads by phone with Bill Reed 613-831-8762 or e-mail to [bill at ncf dot ca](mailto:bill@ncf.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.

|   |                 |
|---|-----------------|
| <b><u>For Sale</u></b>  | <b>\$250.00</b> |
| David Clark 10-40 Headsets. 2 pair \$150 each, both for \$250<br>06/08 Call Bill Wilton at 613-259-2605 |                 |

|  |                   |
|--|-------------------|
| <b><u>For Sale</u></b>   | <b>\$6,000.00</b> |
| Certified Rotax 912F 2000 hours on condition" program, without oil tanks or radiators A complete 50hr oil analysis history is available<br>10/08 Call Larry Loretto. at 613 675 2301 |                   |

|  |                   |
|--|-------------------|
| <b><u>For Sale</u></b>   | <b>\$5,500.00</b> |
| Certified Rotax 912F 2000 hours on condition" program, without oil tanks or radiators. This engine was showing a little metal, most likely gear box, normally this goes away after the next oil change, A complete 50hr oil analysis history is available<br>. 10/08 Call Larry Loretto. at 613 675 2301 |                   |

|   |
|---|
| <b><u>For Rent</u></b>  |
| Chapter 245 members can rent a tiedowns near the EAA 245 hangar at Carp Airport. You can rent the tiedowns by the month or for the full year.<br>11/08 call Curtis Hillier 613 831-6352 |

**Time to renew your membership in EAA Chapter 245 Fill in the application form on page 12 and bring it to the meeting or mail it to the address on the front page of the newsletter.**



**Newsletter Deadlines**

Deadlines for articles and for sale/wanted ads will normally be 2 weeks before the next meeting.

A short example follows:

- Meeting date – 2008 Newsletter deadlines
- February 19<sup>th</sup> – Feb 5<sup>th</sup>
- March 19<sup>th</sup> – Mar 5<sup>th</sup>
- April 16<sup>th</sup> – Apr 2<sup>nd</sup>
- May 21<sup>st</sup> – May 7<sup>th</sup>
- June 20<sup>st</sup> (CYRP) – June 6<sup>th</sup> (At the Chapter hangar)
- July 18<sup>th</sup> (CYRP) – July 4<sup>th</sup> (At the Chapter hangar)
- August – no newsletter
- September 17<sup>th</sup> – September 3<sup>rd</sup>
- October 15<sup>th</sup> – October 1<sup>st</sup>
- November 19<sup>th</sup> – November 5<sup>th</sup>
- December – Jan (December shifted to January 2010)
- January 21<sup>st</sup> – Jan 7<sup>th</sup>



**EAA Chapter 245 Membership Application**

NEW: \_\_\_ RENEWAL: \_\_\_ DATE: \_\_\_/\_\_\_/\_\_\_

EAA NUMBER \_\_\_\_\_

EXP Date: \_\_\_/\_\_\_/\_\_\_

NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY/TOWN: \_\_\_\_\_

PROV: \_\_\_\_\_ .PC: \_\_\_\_\_

PHONE: (\_\_\_) \_\_\_ - \_\_\_ .H (\_\_\_) \_\_\_ - \_\_\_ .W

EMAIL: \_\_\_\_\_

N/L DISTRIBUTION Preference: email \_\_\_ post \_\_\_

AIRCRAFT & REGISTRATION:  
 \_\_\_\_\_  
 \_\_\_\_\_

**OTHER AVIATION AFFILIATIONS:**

COPA: \_\_\_ RAA: \_\_\_ UPAC: \_\_\_\_\_

OTHER: \_\_\_\_\_

**Annual Dues:** January 1st to December 31st. (prorated after March 31st for new members/subscribers).

Newsletter subscriber \_\_\_: \$35.00 Newsletter only

Associate Member \_\_\_: \$35.00\* Newsletter plus Chapter facilities

Full Member: \_\_\_: \$70.00\* Newsletter, hangar, workshop, tiedowns. (Note: there is a one time \$200 initiation fee when you become a Full Member)

\*Note Associate and full members must also be members of EAA's parent body in 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