

CARB HEAT

Newsletter of the Experimental Aircraft Association Chapter 245
Ottawa (Carp CYRP), Ontario, Canada
Volume 53 No. 1 March 31, 2023

Next Meetings

Saturday July 15th, 2023; 10am

WHERE: A Hangar Somewhere – Stay Tuned for Details from our President

Check your email in-box for a possible ZOOM meeting invitation to be sent by our Chapter President.
(it's not hard at all to join a Zoom meeting – try it, if you're having trouble, contact one of the execs who will help you out).

Important Chapter News

COVID-19 is still with us and remains a cause for concern. However, our Chapter hangar remains open, and meetings may be held in the hangar or upstairs in the club house. Please stay tuned for updated guidance from our President.



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EXECUTIVE ROUNDUP

Editor's Comments

Peter Whittaker – EAA Chapter 245 Newsletter Editor



Hello EAA Chapter 245,

Welcome to the second quarterly edition of Carb Heat for 2023. This edition is on the light side with people being busy during the summer months.

The main event this past quarter was Young Eagles Day which was expertly coordinated by Andrew Henry. The event is summarized in the Young Eagles section.

Plans were made to have a Chapter 245 display at Canada Day events at the Aviation and Space Museum at Rockcliffe Airport. In addition, several members had plans to fly their aircraft in as examples of homebuilt aircraft. Unfortunately, the weather did not cooperate with a combination of poor visibility in bush fire smoke and a buildup of thunderstorms as the day progressed. Outdoor events were cancelled by the Museum at 7am.

Oshkosh B'Gosh is coming up rapidly with word from Phillip Johnson that the Canada Camp site is full. This is a reminder to any Chapter members at Oshkosh to take a few photos and send in some articles about the event and if you flew in, a trip report would be great for Carb Heat.

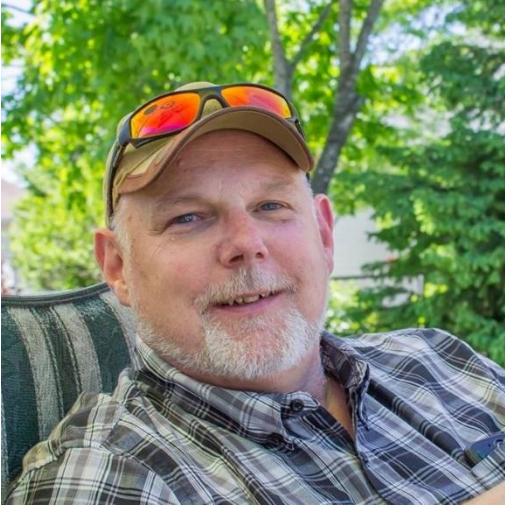
There were no additions to the Classifieds section and no word on any sales so, the items listed remain the same as in the last issue of Carb Heat.

Keep on Building and Flying,

Peter W

President's Message

Mark Richardson – EAA Chapter 245 President



Hey Everyone,

Well, spring has sprung, and I can definitely see where the birdies is. In fact, they are consuming alarming quantities of black oil seed; I may have to rethink this retirement thing just to pay for it...

As I write this, we had our first Young Eagles event of the year a couple of weeks ago and, as usual, Andrew Henry (our YE coordinator) pulled off a super successful event. I don't think I have seen the final tally yet, but I believe we were in the neighbourhood of 48-50 kids flown. We had a great response from volunteers (both ground and pilots) and everything appeared (at least to me) to run super smoothly. I really like the fact we are getting young people involved as volunteers as well. As a chapter we are super happy to sign off the volunteer hours required by their schools, plus it gets them enmeshed in the aviation world in some small way. Between the young volunteers and the kids, we take up for flights we may be planting the seed of the next Chris Hadfield.

Just this past weekend I flew out to Cobden for their flyin BBQ lunch. I thought it was a great day for flying (calm, no rain, overcast so it was smooth) but by the time I left around 1130 only about 10 or so airplanes had flown in. The previous weekend I had flown into the Smith Falls flyin breakfast and there must have been 30 or 40 airplanes. I'm not sure why the low turnout in Cobden, although being a grass runway may have something to do with it. I LOVE flying off of grass.

This coming weekend is the Arnprior Flyin Breakfast. I am hopeful there will be a big turnout for it. I will fly in again, but it won't be a terribly satisfying flight; I think my home grass strip is four minutes south of the airport at cruise speed (which is not very high in a Maule to begin with) Regardless, hopefully I saw some of you there.

And finally, thoughts are turning to Oshkosh. I think the Canadian Camping area filled up, so I am expecting to see a bunch of you there. My wife and I will be camping with our airplane, but we will be making stops at "Little Canada" throughout the week...hopefully for cold, adult beverages.

Take care.

Mark

Vice-President

Mark Briggs – EAA Chapter 245 Vice-President



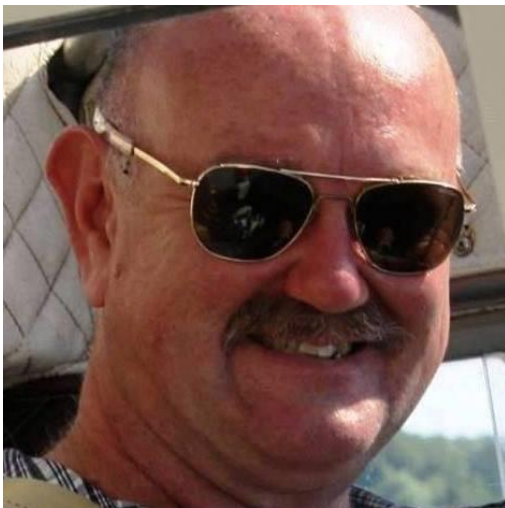
Hi All,

Wishing you Blue Skies and Tailwinds,

Mark

Treasurer and Marketing Manager

Ken Potter – EAA Chapter 245 Treasurer & Marketing Manager



Hello Everyone,

The Chapter's financial position continues to be healthy with adequate reserves to see us through the year.

Cheers,
Ken

Secretary

Mark Cianfaglione – EAA Chapter 245 Secretary



Hello Everyone,

Happy Smokey Canada Day!

While there were no EAA245 celebrations we hopefully did something that was fun. I had the great opportunity to work on my aircraft for 6 hours uninterrupted. It was glorious.

We also have a new wireless internet on the EAA 245 apron. Our President probably already told you the details, but I have tested it down to taxiway B and it works. (Although watching a video or doing a Teams meeting is probably not going to work well).

That's all folks. Got to work on an aircraft or a boat. Summer is wonderful!

Mark C.

Operations

Chris Hepburn – EAA Chapter 245 Operations



Hello All,

Not much to report this quarter... the grass gets magically cut, and I appreciate that.

Broken bandsaw blades are replaced and that too is really appreciated. The best part is that we as a chapter are taking care of things as a chapter. Nuff said.

Take care when flying in this smoke. Consider going south through the US to Oshkosh ... many more airport alternates down there.

See you soon,

Chris

Membership and Webmaster Reports

Phillip Johnson – EAA Chapter 245 Membership Coordinator & Webmaster



Hello All,

OK, now to the chapter stuff. Figures 1 and 2 show how we are doing as a chapter, but we are still shy of 24 members from 2022 who have yet to renew their membership. If all of those members renew, we will have 108 members in total. It is important that we do not lose these members as we are now, largely, through COVID and we can now look to being more active as a chapter. Remember, this is your chapter and many EAA members, across Canada, would kill to have a chapter near them. Please make an effort to renew your membership. Remember, you are required to be a member of our parent organisation, to be eligible for chapter membership. Our insurance is impacted if our

members allow parent membership to lapse, and I do keep a record of your membership with our parent organization in Wisconsin.

I've been reviewing the 2023 memberships and there are a few 2022 members who have not renewed at this juncture, and you are one of those who has not renewed. As we are halfway through the year, we need to decide on whether we should be including you in any chapter 245 subject material. Please can you either renew or advise me of your intention to not renew so I can make the necessary modifications to our database.

If I have made an error, and you feel you have renewed, please contact me so I can resolve the matter as I have made a few mistakes in the past.

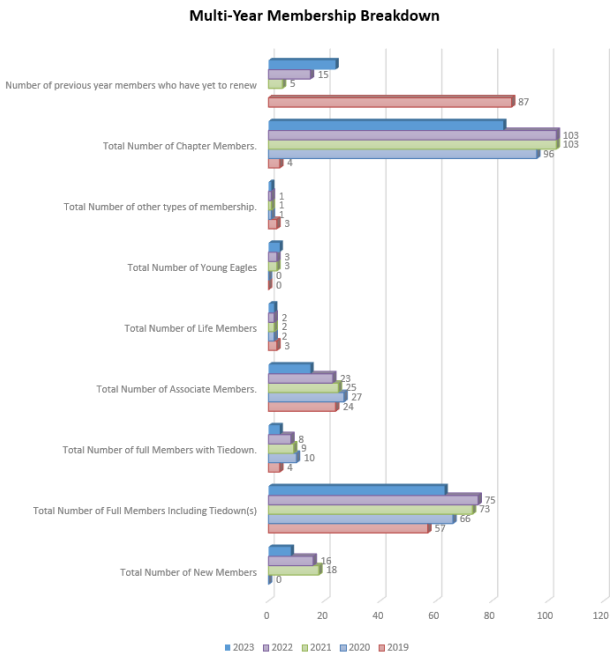


Figure 1 Multi-Year Membership Breakdown

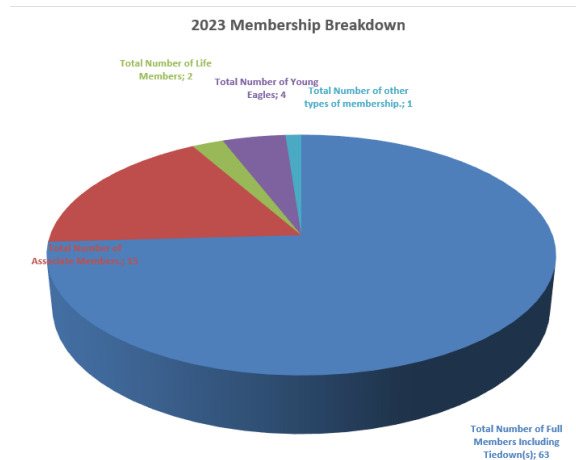


Figure 2 2023 Membership Breakdown

Webmaster Report (Chapter 245 (eaa.org))

On the web front, I've been keeping it up to date so please use it to see what's happening in the area. Also, if you would like to see additional stuff, please just let me know and I'll accommodate you. Some people have mentioned a classified's page, but until I have someone wanting to sell something that is not going to happen. Remember, Every Carb Heat newsletter ever written is available on our webpage which makes for some interesting reading back in the 1970's. If you know of a fly-in breakfast or BBQ, let me know and I'll include a link on our home page.

Phillip Johnson

Young Eagles

Andrew Henry – EAA Chapter 245 Young Eagles Coordinator



Hello Members,

Young Eagles Day took place on May 27th and was well attended with 54 flights being given to Young Eagles. The registration desk was kept hopping and this was set up in the chapter 245 hangar with the chapter Zenith 750 Cruiser project as a backdrop to the registration desk. This allowed for many Young Eagles (and many parents) to have a good look at a homebuilding project.

Also set up in the hangar was a worktable where some of the basic sheet metal techniques were demonstrated. This also encouraged Young Eagles to experience the thrill of snipping sheet metal, drilling holes, deburring drill holes and pulling a rivet or two. The worktable stayed busy throughout the day.

Prior to a flight, a Young Eagle was given a walk around and an explanation of aircraft parts and systems plus an outline of safety measures to be followed around an airplane on a static display. This introduction to aircraft was provided for both Young Eagles and parents and gave a better understanding of what could be expected at the actual flight.



Registration desk and a busy time.



Building methods demo table with the Cruiser project in the background.



Static display for aircraft orientation.



Happy Young Eagles – What it is all about!

Thanks, and Happy Flying!

Andrew Henry

Young Eagles Coordinator

EAA245

Young.eagles@eaa245.org

MEMBER ARTICLES & PROJECTS

EAA VMC Club – Mark Briggs



EAA VMC Club

Question of the Month

EAA Chapter 245 kicked off our first VMC Club meeting immediately following our March monthly meeting. The photo below shows some of us gathered around in a "discussion circle" to talk about the Question of the Month. For March that question was, "What is a Special VFR (SVFR) clearance, and under what conditions can a pilot get one?" The discussion around this topic was lively and informative. Participants showed a broad range of experience and knowledge, and, importantly, were willing and open to share that knowledge. We talked about the underlying legislation, what constituted VFR conditions and Special VFR weather limits, and about experiences when we had obtained a Special VFR clearance and those times when perhaps we should have obtained one.

The VMC Club meeting format is quite simple. We start with a Question of the Month and let the discussion follow from there. There is a facilitator (yours truly) but not a leader per se. We don't have one person who has all the right answers or who is the teacher or instructor. Rather we are all in the position of being both teachers and students. It's an informal, open sharing of knowledge. If we get ourselves into a quandary, we have a Flight Instructor upon whom we can call for help in answering a more difficult question should that situation arise.



To quote the EAA mother ship:

"Non-instrument rated pilots who want to improve their proficiency have an excellent resource through EAA's Visual Meteorological Conditions (VMC) Clubs. The purpose of EAA VMC Clubs is to build proficiency when flying under visual flight rule conditions.

EAA VMC Clubs are extensions to local EAA chapters and offer monthly meetings in which pilots can network and share knowledge and experience. The meetings use real-world scenarios to engage members and allow a free exchange of information that improves awareness and skills. The intent is to create a community of pilots willing to share information, provide recognition, foster communications, promote safety, and build proficiency. Through the EAA VMC club programs, visual flight rule pilots have improved their proficiency, and they love it."

I hope that more folks will join us at our next VMC Club meeting which is tentatively planned to take place following our monthly Chapter meeting.

Mark.

Zenith 750 Cruiser Project Update – Peter Whittaker

The Cruiser status has not changed since the last Carb Heat thus the summary remains the same.

Current work on the Cruiser has involved the instrument panel. Instruments from the donated panel (Thanks go to Mark Briggs for that) out of the crashed Zenair 601 are planned for the Cruiser to give it a basic VFR panel. The aim is to install as much as possible but, power and wiring will not be done until an engine is arranged. The panel is in three removable sections so that whoever purchases the Cruiser project can reconfigure it as desired. So far, most of the instruments have been installed (photo below) with a lot of work by Yves Marchand, switches plus circuit breakers remain to be done. A centre console will extend below the middle of the panel, and this is where circuit breakers and some switches will likely go. The blank space above the altimeter and air speed (8,9) is intended to allow for a bracket to hold a tablet. The current instruments are numbered with their labels below.



1 Compass, 2 ELT remote switch, 3 Dynon D10 EFIS (precursor to the D10A), 4 Elevator trim switch and LED position indicator, 5 Intercom, 6 Radio, 7 Transponder, 8 Airspeed, 9 Altimeter, 10 Tachometer, 11 Oil pressure, 12 Oil temperature, 13 Left fuel level, 14- & 15-Cylinder head temperatures, 16 Right fuel level.

Note: The Cruiser has dual Matco brakes with master cylinders on the pilot side and ¼" nylon tubing connecting the components (behind the brake pedals). The lines have not yet been filled with brake fluid.

The Cruiser Future:

The Cruiser project was reviewed during the March 2022 general membership meeting by President Mark Richardson, he outlined the investment that Chapter 245 has in the project (\$28K) and this forms the basis for the asking price. The project is at a stage of where an interested group of members or an individual member could take the project to completion. The airframe is complete with the wings and empennage attached, control surfaces balanced and rigged and wing dihedral set. LED wingtip lights have also been installed and tested, these include position, nav and strobe lighting. The first-generation Jabiru 3300 engine would need to be rebuilt; the useable parts have been cleaned. Everything else forward of the firewall would still be required, included a cowling, prop, and spinner. The options at this stage for a buyer or a group would be to put together their own instrument panel or keep the basic VFR instrumentation on hand and select a different engine and firewall forward components. The chapter hangar would also be available to a group or individual for completion of the 750 Cruiser.

An inventory of remaining parts on hand was carried out in March and the list is copied below.

Any interested individual or party can contact the President or other members of the Executive team.



LED wingtip lighting



Jabilru 3300 split case

Current Inventory:

Cruzer Parts Remaining March 12, 2023

Throttle }
 Carb Heat } control cables cut short to length
 Choke } for Zenair 601 Firewall.
 Cabin Heat }

L+R "eyeball" air vents, each w 16" of seat hose 2" diameter
 Windshield rubber trim - bottom seal (cut to length)
 $\approx 10'$ d. $\frac{1}{4}$ " ID nylon line for pitot line connections to instruments
 75-SSO-1-3 Seat Angle Attachment (x2)
 Seat rails - adjustable; 2 sets
 Seat hardware; rubber washer, assorted bolts, nuts (incomplete)
 Spare flap - aileron offset splice plates
 Trans-Cal SSD120-XXA SN: 59784 Altitude Digitizer
 A5 rivets 36 126 236 436
 A4 " about 60
 Fuel line $\frac{5}{16}$ " ID Parker Low Permeability $\approx 3'$
 Brass "T" fittings for pitot lines x3
 ACS Ignition switch A-510-2 (Sept. 2005)
 Circuit breaker assembly; 16 breakers (tested and still work)
 Homemade intercom - 2 headset jacks
 switches: ELT, Flap, Aileron + Elev. trim indicators (RAY ALLEN)
 Wiring for Dynon D10 EFIS
 2 rolls of cork sheets
 Red crimp connection rings
 Red knife disconnects
 Blue knife disconnects.
 A6 rivets ≈ 40
 Window Rivets ≈ 175
 4 Relays from crashed 601
 Wire protector (black snap-on) $\frac{3}{8}$ " x 10'
 Zip ties 8" and 7 $\frac{1}{2}$ " ≈ 100 and 40 pieces respectively (2 bags)
 Cotter pins assorted; $\frac{3}{4}$ " up to 3"
 VSI Kammish Instruments

CLASSIFIEDS

Does anyone have anything aviation related to list? Drop me a line at newsletter@eaa245.org or pwhittaker@bell.net to let me know and I will add your treasure to the classifieds listings.

1. For Sale: Chapter 245 Zenith 750 Cruiser project, \$28,000. The airframe is assembled, an engine and firewall forward components are needed, the instrument panel is currently being built using instruments from the old Zenair 601. The assembled airframe is in the chapter hangar for viewing. A torn down Jabiru 3300 engine (Generation 1) is also included. Contact the chapter president if interested.

2. From Mark Richardson (president@eaa245.org):

Take of advantage of my impatience/short attention span on these items. I bought these for my Bearhawk build over the last 6-8 years. Some of the stuff I bought used from guys on the VAF forums and all were working when removed. Other stuff is new. In all cases I bought this with the intention of keeping the cost down with older equipment but then I got distracted by shiny new stuff. SQUIRREL!

Two Garmin GDU 370 EFIS units. Each comes with the mounting ring that is riveted to your panel. No config module or any of the other LRUs. Just the displays. Currently these are going for about \$1500 USD each. \$2,500 CDN for the pair, or \$1,500 CDN each.

One Garmin GTX-23ES remote transponder/ADS-B with mount tray and back plate and Garmin connector. Used. New at Aircraft Spruce \$3,380 CDN. Asking \$1,500 CDN.

One Garmin SL-40 Comm with mounting tray. Used. Currently going for around \$1,300 USD. Asking \$1,000 CDN.

One INS-429 nav radio from VAL Avionics. Used.

- VOR, Localizer, Glide Slope and Marker receivers.
- Active and standby frequency with flip-flop.
- Milled billet aluminum construction.
- Digital OBS with push-button auto-radial centering and 180-degree reciprocal.

Comes with a custom harness from the RV-6 it came out of. New at Aircraft Spruce it is \$2,900 CDN. You can have it for \$750 CDN.

One pair of Aero-Lites PAR36 landing/taxi lights. New, in box. From Aero-Lites they are about \$280 USD. Asking \$200 CDN.

One RAM AV-569 DME antenna (bought to go with the INS-429 above). New in box. Currently \$265 CDN at Aircraft Spruce. Asking \$175 CDN.

One 2.5" Saber prop extension kit with the AN7-82 bolt kit (6). New, unused, in box. Vans wants \$725 USD for this set. You can have this one for \$600 CDN.

Pro-tip: don't buy your avionics (or any other expensive thingies) until the last possible moment. Now you know why.

3. From Irving Slone: Garmin GPS 3 Pilot with antenna and power cables. Power cable plugs into a cigarette lighter socket. Any reasonable offer considered. Contact Irving Slone if interested and for further details at islone@regionalgroup.com .

4. From Andre Beauchamp (contact at beauchamp701@gmail.com for prices):
Adel clamps



Flush Mount Hartwell H-5000 Latches



WHO WE ARE - Website: <https://chapters.eaa.org/EAA245>

Experimental Aircraft Association Chapter 245 Ottawa. We are a group of Amateur Aircraft Builders, Owners, and Enthusiasts with a hangar, lounge and workshop facility located at the Carp Airport (CYRP & 122.8), just west of Ottawa.

| | |
|--------------------------------|---|
| President: | Mark Richardson- 613-983-7764 president@eaa245.org |
| Vice President: | Mark Briggs - vice.president@eaa245.org |
| Treasurer / Marketing Manager: | Ken Potter - 613-259-3242 treasurer@eaa245.org |
| Secretary: | Mark Cianfaglione - 613-600-4501 secretary@eaa245.org |
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| Technical Information Officer: | Phillip Johnson – membership@eaa245.org |
| Young Eagles Coordinator: | Andrew Henry - young.eagles@eaa245.org |
| Hangar Group Liaison: | Bill Reed - 613-858-7333 Bill@ncf.ca |
| Past President: | Phillip Johnson – 613-790-4929 membership@eaa245.org |

Membership Application and Renewal Form



We have a “Google Group” for the EAA Chapter. If you are not familiar with Google Groups, it is a service from Google that provides discussion groups for people sharing common interests. If you would prefer NOT to be a member of the group, please tick the box in the membership application form when you renew your membership.

Application Date: _____

New: Renewal:

Name: _____

Street: _____

City/Town: _____

Province: _____

Post Code: _____

Email Address: _____

Home Phone: () _____

Mobile Phone: () _____

EAA Number: _____

EAA Expiry Date: _____

I do **NOT** wish to be part of the
EAA Google Group

Annual Dues: run from
January 1st to December 31st.

Associate Member: \$50

Full Member: \$100*

- Newsletter, hangar, workshop, tie-downs.

Note 1: Members must also be members of EAA’s parent body.

Note 2: On-Line E-Transfers to
Treasurer@eaa245.org are the preferred method of payment.

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