



THE HUB CITY RADIO CONTROL CLUB FLIGHTLINE



[HTTP://HCRCC.ORG](http://HCRCC.ORG)

May 2015

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Saskatoon, SK
SHAG
2015



Saturday, April 25th Field Cleanup - HCRCC Field

by Brian K.

Ten members rose to the occasion in spite of cold and snow and gathered at the field for the Field Cleanup event. It was a success and we were done in about 45 minutes. The focus was breaking down and hauling away the old pilot stations made from ABS pipe. After we gathered for coffee and stories. Doug enthralled us with UAV stories.



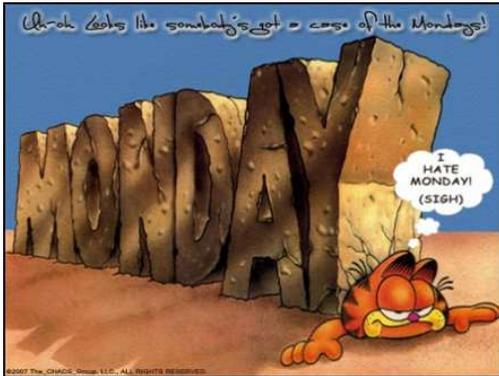
Thanks goes out to new members Claude Georget, Malcom McCauley, Doug Green, and veteran members Dave Kerr, Greg Lock, Ron Prokopchuk, Howard McKay, Art Cey, and Brian Korchinski. A bigger thank you goes out to the organizer of the event, Duncan Campbell, for doing the bulk of the work in advance, for organizing us, and for not cancelling in the face of falling snow.

Upcoming events.....

Evening of New Pilot Instruction ...every Wednesday starting May 20th

The title of this event says it all. Once again on Wednesday nights we'll be meeting at the field to instruct new pilots how to fly RC. We had a great time last year. Our team of instructors is greater and mightier than ever! And of course there are rockets to finish the evening. At the May 20th event Mike Dolan has promised to launch his big "G" class rocket. Bring earplugs!
Brian K.





Theme Mondays

By Brian K.

A new event for this year is the Theme Monday's. It will be run on Monday nights throughout the summer. Rick Reid and Mike Dolan are refining the list of events so stay tuned for further updates!

May 29th-31st

SHAG - HCRCC Field

by Brian K. and Colten E.

The twelfth SHAG event is only a few weeks away. This event is a yearly event with pilots coming from all over Canada and the Northern US States. The goal is to get as much of the heli community out of hibernation and ready for the summer. This is a non-competitive event geared towards promoting the hobby, friendship, and fun. This is a great event for newcomers to the R/C Helicopter Hobby, to learn, get assistance, or just see a wide variety of equipment and talent. Talent is by no means a requirement. We encourage those just starting, or those that have been out of flying for a while, to pack up your helis and head to SHAG. There will be experienced pilots onsite to help you with setup, tips on hovering, forward flight, and more. Whether you fly nitro birds, or electrics, there will be something for you at SHAG.



Event fee is \$15 as a pilot and free for spectators. Colten Edwards will be looking after pilot registration, events and prizes. See <http://www.heliaddiction.com/> and event poster on pg 12 for more information. Volunteers will be needed to assist with the concession. To volunteer contact me (Brian Korchinski) at bdkorchinski@shaw.ca or (306)477-1639.

Sunday, June 21st Open House - HCRCC Field

by Brian K.



Plans are taking shape for an Open House event starting at 1:30pm and going until 3:30pm. The intent is to display our club to the general public with a short and focused event. We will need pilots with planes to fill the air and five volunteers to man the display table, the flight sim table, and to escort the public through the pits. We will have drinks available in the pits (no general concession). To get involved contact Greg Lock at glock57@shaw.ca or (306)343-8445.

Hawker Typhoon....



<https://www.youtube.com/watch?v=qexMo-2ZLos>

Lancaster's (yes, plural)....

<https://www.youtube.com/v/50I2rem6d3g&autoplay=1&rel=0>

The Yak-130 (Як-130)

by Terry Jones

Code named “Mitten” by NATO; the Russian Yakovlev Yak-130 is a multi-purpose two seat military jet aircraft. Though it was designed as a subsonic airplane by Yakovlev and Aermacchi, the jet was intended for more than just training pilots.



Yakovlev, presently known as the Yak Aircraft Corporation, was established in the Soviet Union in 1934. During the Second World War the bureau made a name for itself by designing and producing many successful fighters. The other partner in the joint enterprise is the Italian aircraft manufacturer Aermacchi who first set up shop back in 1912. This company designed and produced a significant number of aeroplanes that were used during both WWI and WWII. Today Aermacchi specialises only in training aircraft for both the military and civilian markets.

Air forces today that are equipped with supersonic jets all have the same needs; they require both basic and advanced jet trainers in order to train their future pilots. Though the Yak-130 was designed as an intermediate and advanced trainer, it was also designed as a light attack fighter trainer, a wartime reconnaissance aircraft, and since it can carry a combat load of 3,000 kg it was also intended to be used in both a ground and aerial combat role in a time of war. The Yak-130 is novel in that as an advanced trainer the airplane was designed to replicate the characteristics of many 4th generation jet fighters (1980's to the present) and even one 5th generation fighter, the Sukhoi PAK FA a stealth multirole air superiority fighter. How is one aircraft able to do all of this? Easy, it is just a matter of telling the onboard preprogrammed computers which airplane it is to

duplicate. One can easily conclude that this is the reason why the Yak-130 is known, unofficially, as the iPhone fighter.

The Yak-130 first flew April 26, 1996 and became fully active on February 19, 2010. Currently the number one customer for the airplane is the Russian Air Force, but the aircraft has also been sold to or has been ordered by Algeria, Bangladesh, Belarus, and Syria.

Yak-130 Specifications:

Crew: 2

Wingspan: 9.72 m (31 ft 10 in)

Length: 11.49 m (37 ft 8 in)

Height: 4.76 m (15 ft 7 in)

Wing area: 23.52 m² (253.2 sq ft)

Weight – Empty: 4,600 kg (10,141 lb)

– Loaded: 6350 kg (14,000 lb)

Maximum takeoff weight: 10,290 kg (22,685 lb)

Engines: 2 Progress AI-222-25 low-bypass turbofans, 24.52 KN (5,512 lb-ft) each

Maximum speed: 1,050 km/h (644 mph)

Cruise speed: 887 km/h (551 mph)

Stall speed: 165 km/h (103 mph)

Range: 2,546 km (1,582 mph)

Service ceiling: 12,500 m (42,660 ft)

Rate of Climb: 50 m/s (10,000 ft/min)

Wing loading: 276.4 kg/ m² (56.6 lb/sq ft)

Thrust/weight: 0.78

The RC Version

Just after Christmas I decided it was time to retire my EDF Viper jet and look for something to replace it. The before mentioned jet has an eleven blade 90mm EDF that uses a six cell Li-Po battery. The performance of the Viper was pretty good, the turbine



(whoosh) sound produced due to the number of blades was great, but the wheels were a bit on the small side for a grass runway and thus had take-off issues. After some looking around and doing a little research I decided the Ready2fly Yak-130 was worth a closer look. The spec sheet stated that a six cell Li-Po was required to turn a twelve blade EDF unit. And there was evidence out there that grass runways were not an issue for this jet. Enough said, so I ordered one.



Ready2fly, a Swiss company, designed the EDF Yak-130 and it is currently being manufactured in China for them. The airframe is mostly constructed out of Expanded Polyolefin foam, or EPO. This variety of foam is a lot tougher and is a more durable version of foam that what most people are familiar with. EPO is different in that it will return to its original shape even after experiencing much more exaggerated stresses that

would cause failures with the other types of foams. Though EPO foam is heavier than the more common types of foams that are used in the hobby, such as EPS or EPP, the weight penalty incurred is small compared to the strength and durability gained. But now with the recent advancements in EDF efficiency and their increased thrust outputs, the higher weight of the EPO foam is no longer an impairment.

When I unpacked the Yak-130, I was pleased with the level of detail on the airplane. The first thing I noticed was the rather large cockpit with the two pilots in orange flight suits surrounded by highly detailed instrument panels. There is even simulated canopy explosive cords over both of the pilots heads. Further, the jet features metal geared servos for each control surface and even has fully



functioning Fowler flaps and a working airbrake. The landing gear comes pre-mounted and are composed of three electric retract units with fully functioning shock absorbing aluminum struts along with sequencing gear doors. Mounted on each strut is a very

bright landing light and all three lights switch on when the gear is in the down position. And speaking of lights, there is even preinstalled working navigation lights. Ready2fly even included a full ordinance package that each individual piece is held on with magnets making transportation of the airplane easier. And last, but not least, the Yak comes with a twelve bladed fan contained within a metal housing that has a 1700kv electric motor with a 130 amp ESC and a separate 8 amp BEC to run everything.



Though a brand new flying season is upon us, I have yet to make it out to the club field and start flying this year of 2015. So at this time I am unable to critique the flight characteristics of the Ready2fly jet. But, if the Yak-130 flies half as good as the model looks it should be a joy to poke lots of holes in sky with.

Ready2fly Yak-130 Specifications:

Wingspan: 1200mm / 47.2in

Length: 1500mm / 59in

Flying Weight: 4000g / 141oz

Power System: 4074-1700kv Brushless Inrunner Motor

Electronic Speed Control: 130A, 8A UBEC

Propeller / EDF: 90mm metal housing with 12-blade impeller

Landing Gear: electric retracts with shock-absorbing aluminum struts

Required Battery: 6S 22.2V 5000-6000mAh 40C or better Li-Po

*May your number of landings always
equal the number of your takeoffs*



My Super Cub

By Terry Pepler



PA-18-150 1/4 Scale

Wing span 106 "

Flying weight 17 lbs

33cc EVOLUTION gas engine.

Propeller 17X8

Telemetry

Sensors - RPM - Temperature - Voltage

Two 6v battery's.

Full body Pilot, I call BOB

Lots of parts but it went together well no surprises.

The bags of screws are not labeled so it is possible to put them in the wrong place.

Big control surfaces and Lots of power !

All the Electronics are under the floor.

As most of you know I am 100 % electric so gas is new to me.

I flew nitro 50 years ago.

" FLY SAFELY "



3/4 view of Terry's Super Cub



View of cockpit



View of battery compartment under floor



View of radio installation



View of pilot "Bob" and passenger

****MUST HAVE YOUR MAAC LICENSE TO PARTICIPATE****

SASKATOON, SK SHAG 2015



We want you
and your heli's

**May 29th
To
May 31st**

Where: Hub City Radio Control Club field

When: May 29th, 2014 Noon until May 31st, 2015 at 3:00pm

DIRECTIONS TO HUB CITY RADIO CONTROL CLUB

- Drive South on Hwy 1
- Turn right between Grasswood Esso and Shell
- Drive approx. 1.5 k to range road 3052 (First Intersection)
- Turn left. Drive to first road on left side and turn left through the gate.
- Welcome to the Flying Field



Contact Colten to register at:
cd.edwards@sasktel.net

CAMPING ON FLYING SITE AVAILABLE!

Registration for pilots is \$15, watching is free.

Minutes of HCRCC General Meeting April 8th, 2015



We held our April 8th meeting on the steps of WMCI. It was a beautiful sunny evening and a good meeting.

	Date / Time	08Apr2015 - 7:00 pm	
	Location	WMCI Front steps	
	Present:	16	
	Written by:	Greg Lock	
	ITEM	ACTION	DATE
1	Call to order 7:00pm		
2	Approval of agenda – motion to approve by Duncan C. & 2 nd by Lyle B. – voted/passed.		
3	Acceptance of last minutes – motion to accept by Terry P. & 2 nd by Duncan C. – voted/passed.		
-	Introduction of new members and visitors – welcome Claude Georget		
4	REPORTS		

<p>4.1</p>	<p>President (Brian K.)</p> <ul style="list-style-type: none"> • Lots of events coming up: Field Cleanup, SHAG, Open House, New Pilot Instruction, Theme Mondays. • Phoning tree is work in progress... 		
<p>4.2</p>	<p>Vice-President (Greg L.)</p> <ul style="list-style-type: none"> • Report - none 		
<p>4.3</p>	<p>Financial (Rick R.)</p> <ul style="list-style-type: none"> • Report – a financial report was presented to those in attendance. Motion to accept report by Ron P. & 2nd by Art C. – voted/passed • ISC is done! • Need to go to bank and get signing authority up to date. 		
<p>4.4</p>	<p>Secretary (Greg L.)</p> <p>Report – none.</p>		
<p>4.5</p>	<p>Field (Duncan C.)</p> <p>Old field business</p> <ul style="list-style-type: none"> • Right now, the best way to access the field is to turn left as soon as you go through the gate, and take the most Northern temporary road. • We need to find a different way of dealing with the garbage from the garbage cans. • Field clean-up April 25th, noon until 4pm. Haul broken fencing, repair club house floor. Need everyone who can to come out and help for the afternoon of the 25th. • Purchase spare set of blades for big mower. • Fabricating safety cages (pilot stations) Steel has been purchased & cut. Next up is welding. • Repair of sliding door on clubhouse (completed) • Renting of porta-potty: lets get it on site for April 24th. (Duncan C. will take care of this.) <p>Tractor:</p> <ul style="list-style-type: none"> • Repair of three-point hitch / burned wiring / fuel tank selector valve / fuel pump - complete • Installed oil pan heater – complete • Repair hydraulic cylinder on tractor – pending • New battery installed. • Concerned about other tractor wheel 		

4.6	<p>Flightline (Neil N)</p> <ul style="list-style-type: none"> • Everybody get their March Flightline? Response was “yes”. • Next Flightline? Brian K. offered to cover April issue if Neil is still busy. • 2 hard copies of the Flightline were taken to Express Hobbies. 	Brian K. / Neil N.	
4.7	<p>Website (Greg L./Howard M.)</p> <ul style="list-style-type: none"> • Another website walk-through at end of meeting? This meeting was held outdoors at the entrance to the WMCI as the school was closed for Easter. Let’s try to do a walkthrough at the next general meeting. 	Greg, Howard, or Brian	
4.8	<p>PR (Darren S.)</p> <ul style="list-style-type: none"> • Display at Express Hobbies has been moved near flight simulator. Thanks, Greg! • It was suggested that we add slides to the display that advertise our new pilot instruction. Good idea. Greg to make this happen. • Could use Sunday paper to post club event/website address info. • Brian K. has hats for sale. 4 sold at meeting - 4 left 	Brian K.	
4.9	<p>Wings & Safety (Howard M.)</p> <ul style="list-style-type: none"> • Progress of ribbon diagrams. • When done, they will be added to the Wing’s Exam forms so everyone will have a better understanding of the manoeuvres that are expected to be performed. 	Howard	
4.10	<p>New Pilot Instruction (B. Korchinski)</p> <ul style="list-style-type: none"> • Will be starting up again in May (weather dependant). Target date is May-20th. • Will contact instructors. 		
5	OLD BUSINESS		

<p>5.1</p>	<p>Indoor Funfly</p> <ul style="list-style-type: none"> • Last event was Sat. March 14th (6:30-8pm) – poorly attended. Why? Continue next year or different venue? • Some discussion followed. We will have a look at this in the fall and see if we can determine a way to again make this a profitable, or at least a break even event. 	<p>Greg / Brian K.</p>	
<p>5.2</p>	<p>Theme Monday's</p> <ul style="list-style-type: none"> • Rick is planning to include a rookie Pylon fun fly and a rookie Pattern fun fly. Nothing new to report. • Need schedule of events? (Brian K. question...) 	<p>Rick R. / Mike D</p>	<p>On-going</p>
<p>5.3</p>	<p>SHAG (May 29-31st):</p> <ul style="list-style-type: none"> • Brian K. to organize volunteers and concession. Need a few volunteers to spot for pilots, mostly need help with concession. Brian K. to find out what hours concession is required, i.e. just over lunch? • Colten E. will focus on gathering sponsors and registration of pilots. • Event website is up and running - see http://shag.heliaddiction.com/ • Working on getting Colten E. registered as club member. UPDATE: Colten advised yesterday he will register with club very soon. • SHAG Poster was taken to Express Hobbies for display. 	<p>Brian K.</p> <p>Colten E.</p> <p>Brian K. / Colten E.</p>	<p>On-going</p> <p>On-going</p> <p>On-going</p>
<p>6</p>	<p>NEW BUSINESS</p>		

<p>6.1</p>	<p>Open House event (June 21st, 1:30-3:30 - Father's Day)</p> <ul style="list-style-type: none"> • Greg L. is organizer for this event • Estimate 5 volunteers to run it: <ul style="list-style-type: none"> ○ 2 situated at display tables to engage the public (flight sim on one table) ○ 1 to escort people through the pits ○ 2 to provide introductory flights. • Will draft a schedule of flight activity. • Need pilots to fill air with all kinds of flying things. • Cold pops available in pit area (no concession) • PR – will ask Express Hobbies to put up posters. • Who to invite? Big brothers? Cubs & scouts? High schools? • Brian to get this registered/sanctioned with MAAC. UPDATE - Application is now with MAAC for approval. • Greg to post on the website and make a Poster 	<p>Greg L.</p>	<p>On-going</p>
<p>6.3</p>	<p>Phoning tree</p> <ul style="list-style-type: none"> • New committee - needs a chairperson and volunteers. • Will contact PR group and members who did not select a committee on application. 	<p>Brian K.</p>	<p>Overdue</p>
<p>6.4</p>	<p>Camera at the field</p> <ul style="list-style-type: none"> • Asked if someone would take the lead on this initiative. (ownership, feasibility, planning, cost estimate). • No one came forward, so this topic is done. 	<p>Exec</p>	<p>07Apr'15</p>
<p>6.5</p>	<p>Kaelan R. Project</p> <ul style="list-style-type: none"> • Kaelan described a November Science Fair Project he is doing is asking for use of the field for a short period of time. • Brian K asked that he submit a detailed proposal for consideration. 		
<p>7</p>	<p>ADJOURNED – 8:00PM</p>		



HCRCC Event Calendar 2015



May

HCRCC General Meeting

Wed, May 13th
7:00 to 8:30pm
WMCI Rm #114



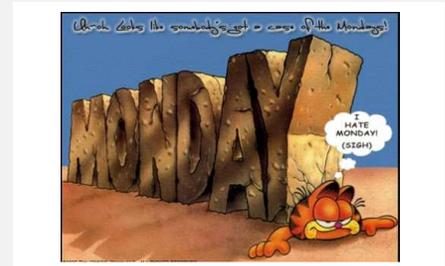
Evening of New Pilot Instruction

Wed evenings starting May 20th
Start time 6:45 pm
HCRCC field



Theme Monday's

Start date to be announced



SHAG

May 29th -31st
HCRCC Field



June

HCRCC General Meeting

Wed, June 10th
7:00 to 8:00pm
HCRCC clubhouse



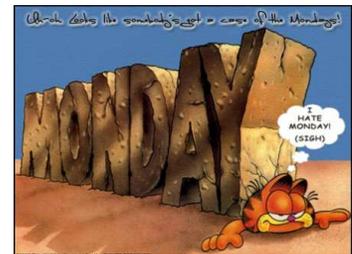
Evening of New Pilot Instruction

Wed evenings
Start time 6:45 pm
HCRCC field



Theme Monday's

..Start date to be determined



Open House

Sunday, June 21st
1:30-3:30pm
HCRCC Field

