

THE FLIGHT LINE

By David Raff – President

Family Day / Model Aviation Day / Fund raiser recap!

On Saturday August 16th the Imperial Radio Control Club celebrated along with over 170 other AMA clubs across the country the 2nd Annual Model Aviation Day. This was combined as a Fund Raiser for the Wounded Warriors Project and a summer IRCC Family Day. Despite the temperatures and afternoon rain showers we still had a large number of members and their families in attendance. Larry Loucks and crew which included Joe Nash – Terry Crosby (Vice President) & Leonard Crosby took care of “burnin” the hamburgers and hot dogs to go with all of the other goodies that were brought by the membership and their families. The fund raiser this year was based on the donations sent in by several of you as well as what was collected that day. Margi Snyder (Gary’s wife) donated several handmade quilts that were purchased that day with the proceeds added to the collection. At last count, we have surpassed last years \$500.00 figure according to Treasurer Gary Snyder and still growing. Since the collection time frame will not be ending until the middle of October, we decided to continue accepting donations up to our September meeting on Saturday the 6th so there is still time for you to make a donation if you would like to do so.

Field Update - New Generator:

If you have been at the field recently you may have noticed a new addition next to the storage

shed. A very special **Thanks!** goes out to Terry Crosby who, when we found that the original generator appeared to have seized up, made arrangements to get another generator from a co-worker of his.



This one is a much newer model and has a larger output capacity than the original. It included all the electrical and propane connections as well as two 20lb propane tanks all for \$100.00. The cost of this by the way, was covered by Terry and instead of repaying him, he had us donate the money to the Runway Rejuvenation Project on his behalf! We will be securing this to the platform and I am checking into possibly having a 6' panel of fencing installed to block the view and reduce the little bit of noise that it makes. Larry, looks like the IRCC breakfast “Sliders” will be making a come-back!

Check out page 4 for your chance to win a fantastic “Precision Performance” TX Ready airplane.

Propwash is published monthly by the **Imperial Radio Control Club Inc.**

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IRCC MEETING MINUTES

July 2014

Recorded by Ian Clark (Secretary)

The August meeting of the Imperial Polk R/C Club was brought to order at 9:00 a.m. by President Dave Raff. A motion was made and passed to accept the July minutes.

Visitors and New Members: New members to include: Christian Miguez & David Kreitz

Treasurers Report: We started the month of August with \$xxxx.xx in the checkbook. We had \$xx.xx income brought in by T-shirt sales and new dues. Our expenses were \$xxx.xx. This outflow of income is very normal for this time of the year.

Membership Report: We needed 80 full members to reach our goal to break even. We have 89 full members and 16 junior members. This puts us ahead of our projected needs

Field Maintenance Report: Dale Anderson has started mowing our field again, and it is looking great. We also have Dave Kreitz doing the maintenance on our mower plus trimming around the field. With this combination of resourceful members, our mower is on track to keep the field in great shape.

Safety Report: When you start to assemble an airplane, the instructions always have a reminder that you are responsible for the control and safety of it. Part of the control and safety issue comes into play when we put them together under our building. Under no circumstances should we run the motors or engines under the building. Electric aircraft should not be connected to a power source until they are clear of the building. There should never be a propeller running when in close confines of our shelter. Our nitro and gas engines should be treated the same.

We will remind everyone again that if you hear thunder, DO NOT FLY. Lightning can strike well before any rain approaches. Those of you that use 72 MHz, remember,

the top of your transmitter. Safety should be first on our minds.

Dan Hudson suggested we display a list of the safety rules. We will get one made up and posted ASAP.

The yellow stripes on the taxiways are there to remind us where we must stop all motors/engines. Do not taxi back to the pits.

All flying is to be north of the runway with the exception of certain foam models that can be flown to the Southeast side of the runway.

After we assemble and set up our aircraft we should move them from the tables. This keeps the tables open for others. Please be courteous to each other.

Instructors Report: We have one new student and the instructors will be getting with him to start instruction

Past Events: The AMA Nationals just wrapped up. IRCC member Jack Fehlingson Matt took top honors with first place in the Q40 Pylon event with Randy Bridge and Dennis O'Brien placing in the top 20. In another event, Chris Odom took third place in the RC Aerobatic event.

New Events: National Aviation Mulberry We will hold our family day event then also. We will be accepting donations and all money raised will be given to the Wounded Warriors Project. Last year we raised \$500.00 and this year, with your help, we will raise even more.

Mulberry 500 Pylon Races Oct. 17th – 19th Scott Smith will be looking for volunteers. The EF-1 class did not receive the interest that was expected and will not be run at this event.

12:00 High October 23rd – 25th This event will be held at Paradise Field, on the south side of Lakeland Linder Airport. Dave Dewitt will be seeking volunteers.

Mulberry Electric Extravaganza – December 5th - 7th Will be the dates we host our annual Electric Extravaganza. There will be night flying on Friday and Saturday nights. We will have a toy drive and all toys will go to the Toys for Tots program.

IRCC MEETING MINUTES
(Continued)

Old Business: Our taxiways and runway are starting to deteriorate. We need to take some action to repair them. We have gotten estimates for over \$20,000 to repave everything. A new option has been presented to us. A local company has presented a solution for about ¼ of the cost. They will fill all cracks, put a coating down and roll the surface to bring it back to prime shape. President Dave Raff suggested starting a fund to raise this money so we won't have to use our club operating funds.

The AMA-FAA controversy is far from over. We all need to go on the AMA website and voice our opinions. This is a serious threat to our hobby. The impact could be very harmful for us. Please be sure to make your opinions known!

New Business: Dan Hudson proposed giving Robert Russ a lifetime membership for his over two years of mowing our field and not charging the club. A Quorum was present, the proposal voted on and approved.

Sportsmanship Award: Larry Loucks was nominated and awarded the highly desired trophy for his work on the electrical system. We will soon have electricity at our building and at the cooking pavilion for upcoming events.

Plane of the Month:

Art Magarino brought out his new airplane. It is a 52% AMC with a 275cc gas engine. He is hoping to take the first flight with it today.



A motion was made and accepted to close the June 2014 meeting of the Imperial Radio Control Club at 9:58 am

IRCC RUNWAY RAFFLE!

You could WIN!!!



The WINGMAKER "SUNRISE" EP

Just Bind & Fly (With included Spectrum "Full Range" Receiver)

The "SUNRISE EP" above was graciously donated by Scotty Smithwick and has been fully assembly including all electronics!

This "Precision Performance" airplane is made from strong, durable EPO foam and includes a high performance out-runner electric motor, ESC, servos, Y-harness & servo extensions all pre-installed. We are even going to include a couple of batteries courtesy of Gary Snyder,.

SPECS: Wing Span: 39.5 in Wing Area: 292 sq. in Flying Weight: 27 oz.
Fuselage Length: 40.5 in Requires: 4-channel radio.

Tickets are \$10.00 each with all proceeds benefitting the IRCC Runway Repair Project! The drawing will be held at the October club meeting!

Just to make this a little more interesting we are going to **limit the number of tickets sold to just 30!**

That's right - you will have a 1 in 30 chance of winning this fantastic prize! Because of the limited number, tickets are being sold on a first come, first served basis so don't delay!

Contact David Raff - raff7113@msn.com

Here is the third and final installment on the article of gasoline engines. Since we are seeing and hearing more conversation about gasoline vs. “glow-powered”, I felt that it would be a good introduction for someone who might be thinking about converting or planning the power plant for a new project.

Small-Block RC Gas Engine Guide — A New Generation of compact Power! BY: Gerry Yarrish



Lately, there has been a noticeable shift toward smaller displacement single-cylinder, gasoline engines and there are now many of these little gas-burning powerhouses on the market. Years ago, when you talked about gas engines, the smaller end was owned by the 25cc engines and the average size was roughly between 40cc and 60cc with a few exceptions. Gasoline engines have also grown to monstrous sizes in the 150 and 200cc ranges with other multi-cylinders radials sporting 400cc. I guess it's only natural that smaller engines have come along to try and balance out the size spectrum.

Why use a small, “20cc and under” gasser? Well, there are several advantages. First, there are tons of 40 to 60 size sport planes out there and many of these smaller gas engines will easily slip into place with little effort. Gasoline engines are extremely fuel efficient compared to methanol/nitro powered engines and the cost per gallon for gasoline is also about a quarter as expensive as glow fuel. If that's not enough, Walbro-type pumper carburetors are very easy to adjust and maintain. And, with their electronic ignitions, gasoline engines are also very easy to start.

So what's not to like? Exactly!

Here are some of the more popular “20cc and Under” gas powerhouses available today.

Valley View RC/ VVRC 20cc



Displacement: 20cc
Bore: 1.3 in
Stroke: 1.0 in
Practical RPM: 1,650-9,000

Weight: 26.5 oz.
Recommended Prop: 16x6
Prop Range: 14x10 to 17x8
Output Range: 2.5HP @ 9,000 RPM

Price: \$189.95

Developed specially for Valley View RC, the VVRC 20cc has engine is one of the best engines on the market today. Valley View RC has ran several of these engines on their test stand and in the air powering several RC airplanes with no failures. The VVRC 20cc engine comes with a Rcexl ignition, NGK-CM-6 spark plug, a composite engine mount and long throttle and choke arms.

BP Hobbies/ CGF 20CC Version 3 (Rear – B Crank Case)



Displacement: 20cc
Bore: 1.25 in
Stroke: 1.02 in
Practical RPM: 1,500 – 9,800
Carburator: Walbro
Max Output: 2.6 HP
Engine Weight: 32.8 oz
Prop Range: 15 x 6, 16 x 6
Ignition: DC-CDI (Electronic)
Power Supply: 4.8V – 6.0V

Price: \$235.95

These powerful gas engines are known worldwide for their high quality, power and customer support. All engines come with prop adapter, muffler, motor standoff, spark plug, electronic CDI ignition and one year manufacturer's warranty. (Beam Mount Version also available.)

RCGF / 15CC Version 2



Displacement: 15cc
Bore x Stroke: 1.14 in. x 1.02 in.
HP: 2.6 hp.
Weight: 29.1 oz.
Ignition: DC-DCI (Electronic)
Power Supply: 4.8 – 6.0 V RPM
Range: 1,500 – 15,000 Prop
Range: 13×8 – 15×8 Power
Output: 2.1 HP Carb
Type: Walbro

Price: \$202.95

Made by Zhejiang RCGF Model and Engine Co. These powerful gas engines are known worldwide for their high quality, power and customer support. All engines come with prop adapter, muffler, motor standoff, spark plug, electronic CDI ignition and one year manufacturer's warranty. (Beam Mount Version also available.)

Today it's getting more and more difficult to find gasoline that does not contain some alcohol. While it will take some time and a lot of gas run through your engine before it will eventually affect performance, alcohol attracts water and moisture causes corrosion. It's now advisable to run your gas engine and fuel tank dry of fuel at the end of the day and use some after run oil. Marvel Mystery Oil is an excellent choice for after run treatments. Also, if your engine begins to become more difficult to start, check your inline fuel filter and your carburetor's internal fuel filter screen. If they show signs of becoming clogged, replace them with new ones. Walbro internal screens are available at most small engine repair shops.

Gasoline engines have always been the heartthrob of the giant scale set and they offer great performance and reliability. Adding their user-friendly traits and miserly fuel consumption to smaller airplanes is a great way to increase your RC hobby fun factor. Make the switch to gas and your .40 to .60 size sport plane and see the difference it makes!



7 Easy Steps for Starting Electronic Ignition Engines

For safety reasons we always recommend the use of an electric starter, but if you want to hand prop your engine to life, here's the best way to do it.

1. Make sure your flying buddy holds yours model so it can't move forward.
2. Position the propeller relative to the engine's compression stroke according to the instructions. Make sure the prop nut or bolts are properly tightened.
3. Turn the ignition kill switch off, and close the choke. To draw fuel into the carburetor, flip the prop until you see gas flowing through the fuel line and into the carburetor.
4. Open the throttle fully, turn on the ignition system but keep the choke closed.
5. Flip the prop again until you hear the engine "cough" indicating that your engine is properly primed. 6. Now, close the throttle, advance the throttle trim fully and open the choke.
7. Flip the propeller again and the engine should start. If not, switch the ignition off, and repeat the procedure.

Fuel Mixes

For most gas engines, a fuel mixture of between 30:1 and 50:1 will work while providing sufficient lubrication of its internal parts. If you are unsure which ratio to use, refer to the engine operation manual or check with the manufacturer. Here's some popular ratios recommended by engine manufacturers.

Ratio	Oz./Gal.
100:1	1.28 (Recommended only for synthetic oils)
64:1	2
50:1	2.5
40:1	3.2
32:1	4

About the author



[Gerry Yarrish](#)

Senior Technical Editor About Me: I have a lifelong passion for all things scale, and I love to design, build and fly scale RC airplanes. With 20 plus years as part of the *Air Age* family of magazines, I love producing *Model Airplane News* and *Electric Flight*.

COMING EVENTS!

September 2014						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6 IRCC Club Meeting
7	8	9	10	11	12	13 Late Summer IMAC BCF
14	15	16	17	18	19	20 GOLDEN ERA FLY-IN BCF
21	22	23	24	25	26	27
28	29	30				

October 2014						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4 IRCC Club Meeting
5	6	7	8	9	10	11 WATT- FEST Electric Fun Fly TCRC
12 WATT- FEST Electric Fun Fly TCRC	13	14	15	16	17 11th Annual Mulberry 500 Pylon Races IRCC	18 11th Annual Mulberry 500 Pylon Races IRCC
19 11th Annual Mulberry 500 Pylon Races IRCC	20	21	22	23 12 O'CLOCK HIGH Paradise Field Lakeland	24 12 O'CLOCK HIGH Paradise Field Lakeland	25 12 O'CLOCK HIGH Paradise Field Lakeland
26	27	28	29	30	31	



Are you ready to **RACE?**

Imperial R/C Club, Inc.

Welcome to the 11th Annual
MULBERRY 500!

What could make life any better than being in Florida in the Fall? Only one thing, RC Pylon racing in Mulberry Florida! For the first event of the 2015 SEMPRA racing season, we will be running AMA 426 class Quickies on October 18th, and AMA 422 class Quarter 40 on October 19th. SEMPRA 424-sport quickie (*Thunder Tiger Pro40, APC 9-6 prop, and a 17,000 rpm maximum ground launch ready tach reading*) will run both days, each day as a single race. We will run the 3-pole AMA short course on Saturday for 424 & 426, and the AMA L-O-N-G course on Sunday for 424 & 422. Friday practice is open to all classes and there will be plenty of help for anyone interested in getting started in Pylon racing. Come on down and see what you are missing!

Entry fees: \$35.00 per day per class(426, 424 & 422).
Current SEMPRA members will receive \$5.00 off of one event per day.
CD. Scott Smith (863)670-5141
Co CD Rick Ruede (863) 944-3287

Practice - October 17, 2014
Racing - October 18 - 19, 2014
Racing Starts At 9:30am daily!

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Please feel free to contact us if you have any questions

Further information, hotels information and directions can be found at:

www.ImperialRCClub.com

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MODELERS

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