

TRI COUNTY RC CLUB

THE FLY PAPER

Charter number 434, March 1968

www.tcrnj.com

Club Hats are available thanks to Frank Jones. Purchases can be made at each meeting and the cost is \$15.00 each. Only a few left.



TCRC Events:

Night flying is scheduled for the 2nd Saturday in August. , That would be August 10th. Rich McDonald has graciously volunteered to take over the duties for the night time shenanigans and will be the in charge of Night flying events. So tape some flash lights to your aircraft and come have some fun.

However, the next two Saturdays, the 10th and the 17th will have TFR's in effect because the President is in the area, so this months night flying will not take place.



Rich McDonald

Theme Day, is scheduled for Saturday, August 24th. So mark you calendar and come on out to the field.

Captain Shenanigans, (*the funny guy with the Hat*) noted that the Theme for this month is **EDF, or Electric Ducted**

Fans, or Jets.

Poor weather of high winds will postpone it to the following day.



Club Meeting

Next meeting is **Thursday, August 29, 2019 8:00 p.m.**

Monroe First Aid Squad Building

47 Monmouth Rd.,
Monroe Township, NJ

Some suggestions for this years flying events include:

"2019 Summers Over , Halloween Fun Fly" and Annual Picnic

"Theme day", Last Saturday of each Month

"Night Flying", Once per month on the 2nd Saturday night.

"Club Cook Out" is scheduled for the **first weekend in August.** Bring your favorite food or dessert to share with the others.

Most events will **not** close down the field to regular flying.

More details and additional events will be posted in upcoming newsletters.

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Welcome New Members:

This month TCRC accepted three new pilots.

Ross May, pictured on the right, lives in Monroe, and flies fixed wing, Multi rotor and FPV.



Jans "Yonz" Brower is from Skilman, NJ, and an avid fixed wing pilot.

Gary Bradley is from Franklin Park, and flies Multi rotor aircraft.

Say hello to these guys when you see them at the field.

Still for Sale, Good Deal!

Walt Pererria, (a past TCRC member) is looking to sell a Ready To Fly (RTF) Apprentice S with Spare batteries. Walt is asking for \$200.00 or best offer. He can be reached at 732-991-5665.



RC Needlepoint

Good needlepoint skills are necessary for RC pilots!

Ok, just kidding I wanted to get your attention.

Lithium Polymer Batteries (LiPo 101)

Because of some remarkable advancement in battery technology, particularly with Lithium Polymer cells (LiPos) and due to the increasing quantity of electric aviation more modelers are finding themselves dealing with LiPos each day. It seems evident to me that a good number of modelers have inaccurate information as to the proper "care and feeding" of LiPos.

(When we discuss LiPo voltage, it is per cell.)

Storage: One of the most essential and frequently overlooked aspects of LiPos is correct storage. All LiPo batteries must be stored at 3.8 volts per cell. (Fully charged LiPo cell voltage is 4.20) When we say "Storage" we are talking about any time you are **not** using the battery. I advocate discharging them to storage voltage as quickly as possible after use. You should be keeping them at all times in a cool environment and this includes when bringing them to the flying field. Don't leave batteries in a hot car or in direct summer sunlight. If possible I would even keep them in a small cooler (not too cold though) and if at home you don't have a cool place to store your LiPos, put them in a Ziploc bag in the refrigerator with as little trapped air in the bag as possible.

****Important**** When storing batteries as I suggest in the refrigerator or cooler its important when you remove them be sure to allow the bag to reach room temperature before you open the Ziploc. If you don't, moisture will condense from the air and your batteries will suddenly be wet, this would be "Not Good" as you can imagine.

When to charge: Charging should be done just before usage and defiantly not the day/night before. You can charge your

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Queens and Maidens Theme Day, 2019

Hanger Queens, Maiden flights had a great turnout of members and aircraft.

All those in attendance were treated to a cookout of hot dogs and hamburgers prepared by our own crew, Gerry and Armand. Cold beverages were abundant.

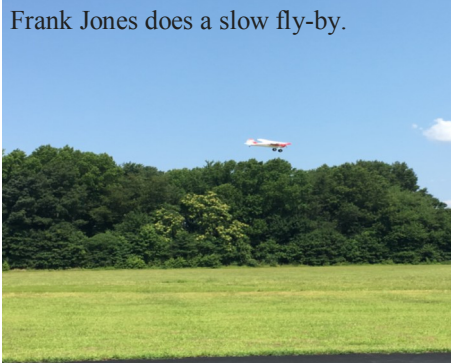
Nice job guys!



Bruce G. helps his grandson Joey pilot his Valiant using a buddy box



On The left is Armand, getting ready to fly his 1/4 scale Nieuport 11. It is a Balsa USA kit, covered with Solartex and powered by a Zenoah G26 with a 17x6 prop. It weights 17 lbs.



Frank Jones does a slow fly-by.



Pete D. is getting ready to maiden his Stinson Reliant, manufactured by Phoenix models.



Steve's plane is a foam P-47 Micro Warbird by Horizon Hobbies.



Louis P gets some trimming help from Mike D.

Guess the aircraft manufacturer.

Send your answer to bgrankowski@optonline.net



Other Things To Do.....

1. The **Wings of Freedom Tour** is in NJ for 5 days starting on August 21st thru Aug 25th. Information is listed on the flyer on the right, or visit their website at www.cfdn.org.



The Wings of Freedom Tour
Let's Go!

B-17 FLYING FORTRESS
P-40 WARHAWK
B-24 LIBERATOR
P-51 MUSTANG
B-25 MITCHELL

BELMAR
Monmouth Executive Airport
at Monmouth Jet Center

August 21	- 2:00 PM to 4:00 PM
August 22	- 10:00 AM to 4:00 PM
August 23	- 10:00 AM to 4:00 PM
August 24	- 10:00 AM to 4:00 PM
August 25	- 10:00 AM to 4:00 PM

Tour - Explore - Fly
The Ultimate Living History Experience.
Walk-through tours: \$15 for adults and \$5 for children 12 years and younger.

Five of the most famous WWII bomber and fighter aircraft are visiting your community as part of the Wings of Freedom Tour. **Tour the beautifully restored aircraft and even TAKE TO THE SKIES YOURSELF** in an ultimate flight experience aboard the bombers! Get some "stick time" in the full Dual Control P-51 and P-40 fighters! 30-minute B-17 or B-24 flights are \$450 per person. B-25 flights are \$400. P-51 flight training is \$2400 for a half hour and \$3400 for full hour. P-40 flight training is \$2200 for half hour and \$3200 for a full hour. The Collings Foundation is a educational non-profit. Proceeds go directly into the continuing operation of these amazing historic aircraft.

★ COLLINGS FOUNDATION ★
Keeping History Alive
800.568.8924 www.cfdn.org

2. The Atlantic City Airshow, **Thunder Over the Boardwalk** is taking place on Wednesday, August 21. The show features the Air force Thunderbirds and many other flight and skydiving experiences.

You can see some practice sessions on Tuesday, August 20, if you desire.

For more information go to,
www.atlanticcitynj.com/events/details.aspx?id=7209

ATLANTIC CITY AIRSHOW 2019

Atlantic City, NJ

Atlantic City Beach

& Boardwalk



2019 Atlantic City Airshow presented by GEICO

Join in on the fun for the 17th Annual **Thunder Over The Boardwalk**, this year featuring the U.S.A.F. Thunderbirds, U.S. Army Golden Knights, Royal Air Force Red Arrows, as well as, the GEICO Skytypers and the Miss GEICO Offshore Race Team!

Don't forget to catch Practice Day on Tuesday, August 20 with a loose schedule of acts from approximately 11 am to 3 pm, as they circle and soar above the free beaches and Boardwalk of Atlantic City! Why not book a room and stay over to catch the main event on **Wednesday, August 21...**

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batteries a few hours before use (the shorter, the better). Bottom line is don't leave a LiPo charged any longer than you have too.

Use: Never discharge or "run down" any LiPo battery past 3.7 per cell. When running down a LiPo in any heli or airplane I would suggest you first test by starting with perhaps a 4 or 5 minute flight and when you land check the "per cell voltage". You can then adjust the flight time up or down for that battery/aircraft combination until you can land without going below 3.8 volts per cell.

Danger Will Robinson, Danger: Yes, that's right Lithium Polymer batteries are dangerous and volatile if handled carelessly.

If you short the positive and Negative poles (wires) on a LiPo, it will fire up like a road flare or a model rocket motor in only a few seconds. Most of the LiPo fires I have heard about or seen where due to crashes and most of those cases where helicopters.



Fire, Fire: The common causes of LiPo fires are punctures to any part of a cell, sometimes from a protruding screw in the airframe or a crash. Over discharging below the safe minimum voltage will ruin your LiPo but some RC modeler house fires can be traced back to mistakes during charging. (We can cover charging in a later article)

LiPos are awesome! But they require your respect and an investment for a good name quality charger. When purchasing LiPos keep in mind that most (not all) are virtually the same. Don't spend too much but also beware of the real cheap. My understanding of the common difference between batteries (assuming mah & the C rating are equal) is after each cell in manufactured they are tested. These cells are then sorted into categories as per the test results and then sold in batches based on those results. The company who buys the cells will assemble, cover and label it as their own. A good example is "Turnigy" batteries from Hobby King. (I think they are good by the way) Turnigy has two or three different versions of most size batteries at differing cost. They market them with some slick BS but the only variable in most cases is the test results at the factory on each cell.

The "C" word: The "C" rating on these battery packs is a measurement of its capacity to allow electrons to flow (to unload or to discharge upon demand). Higher C rated packs can accept a more vigorous discharge and recharge rate and are needed for high performance. I have in addition found that without exception a high C rated battery will charge significantly faster and live a great deal longer life than the majority of low C rated battery packs. While for the most part high C rated batteries will cost extra it is my estimation they will give you a return on the investment due to the longer life span and enhanced performance in the air and on the charger.

Hot Pockets: When you land your flying machine and check the LiPo, if is cool or warm all is well but if it's HOT to the touch or if it's puffed up, then you have a problem. This puffing up of the pack is due to gases produced from the polymer spacers between the lithium metal anodes in each cell deforming under high temperature. When a battery generates heat (thermal discharge) it is usually due in to a higher current draw than it's rated for. In simple English, you need to lower the draw or use a higher "C" rated battery. As stated previously, the C rating is a measurement of the battery's capacity to move/flow electrons (discharge or recharge) As to the "puffed up" LiPo, sorry,,,, its too late. You can still use it for something like bench testing parts but don't use it for anything that fly's, your asking for trouble!

Lastly: LiPo (Lithium Polymer Batteries) and LiFe "LiFePo4" (Lithium iron phosphate) are completely different and do not have the same per cell voltage or chemistry

Have Fun,

Mike DiGennaro

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For Sale : Great Bargains

Gerry Contrabasso has a few glo -fuel planes along with tools, fuel , coverings, radios, etc. that he is looking to sell.

He also lists a 40 size Stick with a 70 size 4 stroke OS engine that has never been flown with a new computer radio that has never been used.

Mr Contrabasso also has some 4 stroke engines, Saito and OS Engines that have been meticulously kept safe in original boxes and never crashed.

Gerry is unable to drive, so the buyer must pick up the merchandize at his house.

Gerry's email is **gcontrabasso@yahoo.com** or phone him at 609-395-7274 and leave a message.

His home is a 18 Merlot Ct. Monroe Township, NJ 08831



Goldberg Tiger 2, 61" wingspan, OS70-4 stroke, 5 servos, Futaba radio, 5 channel, Additional 2 gal glow fuel, glo plugs.



Great Planes Big Stik 40 ARF, OS 70-4 stroke, 5 servos, NEW Spectrum 6i Transmitter, extra receiver, and trans carry case. Includes 2 gals glo fuel



Great Planes Super Sportster 60, with OS 90-4 stroke, wing span of 60" Futaba radio 4 channel radio/FM, 5 servos, covered in 21 century covering.

Over the past 30 years, Gerry has a vast collection of building tools, engines and accessories that he would like to sell.

Paints, Coverings
Tach, Prop Balancer
Higley prop nuts, spinners
Wheels, landing gear,
Glo starter clips,
Futaba Servos
Elec starters, (Standard and heavy duty)

2 Saito 50 4 stroke engines
1 Saito 80 4 stroke engine (golden rockers)
1 Enya 50 CX 2 cycle engine
1 Enya 60 X 2 cycle engine
Great Planes CG machine
Hi Tech X1 AC/Plus multi charger
MonoKote perforator tool
Great Planes hinge slotting tool (electric)
Buzzard Bombshell kit in box (60 in wingspan)

Academy Model of Aeronautics
Charter # 434



The Fly Paper

C/o Bruce Grankowski
E-mail: bgrankowski@optonline.net