

Southern New Hampshire R/C Club, Inc.

Bullsheet

<http://www.snhrec.org>

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AMA Charter #408

PRESIDENT'S MESSAGE

June 2007

I hope some of you were able to get some flying in the Memorial-day weekend. We certainly had a good run of weather for a couple of days. This should help get you used to being outdoors and flying. While we're here, our next meeting is at the field. So bring something to fly before and after the meeting.

I missed last meeting while I took a trip out to America's heartland and got to take a tour of the Boeing facility that manufactures the Navy's F18G Hornets. These are some of the most advanced fighters in the air. It was definitely interesting and had a few surprises.

So how many of you who built Hunt-Airs will be ready for our June 10th Fun-Fly? Yes, the fun-fly is coming up before our next meeting. Just like last

year's project fun-fly there will be events that all airplane type could participate in and one special event just for the Hunt-Airs, and its derivatives. Once we get a head count for the day we'll send out for hot dogs, buns, drinks, etc. There might even be some awards for the event winners....

One of the things that came up at the officer's meeting was that not everyone with an email account is signed up for the club's yahoo email list. This list is a valuable tool the club can use to get information out to club members between meetings and to share information. I encourage everyone to take a minute to sign up. If you'd like to join and don't want to take the time to sign up, just let us know and with your permission we can add you to the Yahoo list.

— John



Maurice (left) accepts Best Scale Award from Dave

Next Meeting June 12, 2007, 7:30 PM

Litchfield Middle School, Litchfield, NH

This BULLSHEET is published by the Southern New Hampshire R/C Club, Inc., a non-profit club chartered for the promotion of building and flying radio controlled model aircraft. The club operates a flying field in Hudson, NH and offers free instruction in safe model flying to any member. Academy of Model Aeronautics membership is a requirement.

Meetings are held at 7:30pm on the second Tuesday of each month at the Litchfield Middle School in Litchfield.

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Meeting Minutes

SNHRCC Meeting minutes
May 8, 2007
Litchfield Middle School

Officers in attendance Dave Surwell and John Hayes

Secretaries report were read and accepted.

Ray Breton was absent from the meeting, but was volunteered anyway to fertilize the field. Comments were brought up regarding the new table, general consensus is that it is a bit too high. Darrell brought up the gate closing policy. Once again it was defined as needing to be closed daily after 4:00 pm and all the time on the weekends. Only exception is if the police are at the firing range. In that case it will be left open as a courtesy in case they have to leave in a hurry. A suggestion was made for signage at the second gate, as a reminder, the officers will handle this. The upcoming Glider Camp event was described. Dave Surwell mentioned the need for a new grill cover. The gate key problem was discussed with no one present having any problems.

Pizza was served at 8:00 followed by the award presentation for the Show & Tell.

Best ARF	Norm Ellis
Best Electric	Bob Brodeur
Best In Process	Drew Davenport
Best Kit Bash Club Project	Drew Davenport
Best Scale	Maurice Theriault
Best Stock Club Project	Dave Surwell
Best Sailplane	David Beach
Best Sport	John Hayes
Best Of Show	John Hayes
 Modeler of the year	 David Beach

Club Calendar

June 2007

- 10th Club Project Fly In
- 12th SNHRCC Club Meeting at Wagner Field

July 2007

- 10th SNHRCC Club Meeting at Wagner Field
- 15th Gremlin Combat Meet

August 2007

- 5th Granite State Glider-Fest
- 14th SNHRCC Club Meeting at Wagner Field
- 26th Family Day

September 2007

- 2nd Pattern Contest
- 11th SNHRCC Club Meeting

October 2007

- 9th SNHRCC Club Meeting
- 28th Gremlin Combat Meet

November 2007

- 13th SNHRCC Club Meeting
- 18th Turkey Fun Fly

December 2007

- 11th SNHRCC Club Meeting



Li-Poly Battery Basics

**From the Monmouth Model Airplane Club, Inc
Keansburg, New Jersey
by Paul Gentile**

The popularity of electric-powered aircraft has soared (pun intended) over the past few years. Part of the reason behind the recent popularity has been the advent of Lithium Polymer or Li-Poly batteries.

Li-Poly batteries pack a high energy-to-weight ratio when compared to their Ni-Cad and NiMH battery cousins. This stored energy has good and bad potential, and we will touch on both here.

Li-Poly battery cells are 3.7 volts, as compared to Ni-Cad and NiMH batteries which are 1.5 volts per cell. When Li-Poly batteries are wired in parallel, they do not discharge like other batteries. In addition, when you wire cells in parallel, each cell only sees half the total current, or amp draw.

Total current is very important for Li-Poly batteries and is identified with a C rating. You may see Li-Poly batteries advertised as 3C, 6C, 8C, 10C. This means that a 3C 1500 mAh (1.5 amp) Li-Poly battery pack should never be discharged at a rate higher than 3 x 1500 mAh or 4500 mAh (4.5 amps). Discharging a Li-Poly beyond this rating could cause damage to the cells or even fire. A very serious concern.

Changing a propeller on your airplane can change the current draw and cause higher than expected discharge rates. So it is beneficial to have a current meter on hand. The manufacturer's specifications for the motor, speed control, and propeller combination you are running also come in very handy.

The other letters on Li-Poly packs refer to S for serial wiring of cells and P for parallel wiring of cells. A 3S pack would be 3.7 volts x 3 cells = 11.1 volts. A 3P pack would mean three parallel cells, or 3.7 volts and a higher C rating. A 3S 3P pack would have 3 cells in serial (11.1 volts) and 3 cells in parallel.

Li-Poly batteries also do not require cycling, or discharging like other batteries. In fact, you never want to cycle down Li-Poly batteries. You should always leave a partial charge,

to avoid damage.

Chargers and speed controls should always be rated for Li-Poly use. Do not attempt to use your Ni-Cad or NiMH equipment. An improper charge rate could cause a Li-Poly pack to explode and burn at over 2000 degrees. A non Li-Poly rated speed control could cause over discharge and cell damage.

Here is a list of dos and don'ts for your Li-Poly packs:

Li-Poly Cell Voltage
Cells x 3.7 = voltage
1 cell = 3.7 volts
2 cells in series = 7.4 volts
3 cells in series = 11.1 volts

- Never put your Li-Poly packs in water and never put water on the packs.
- Don't leave your Li-Poly batteries unattended while charging. See www.modelaircraft.org for this year's list of people whose cars and houses have burned down while leaving packs unattended during charging.
- Don't puncture or short out Li-Poly batteries.
- Don't fully discharge your Li-

Poly packs, this will damage the cells.

- Don't put the Li-Poly battery in your car, or leave it in your airplane after a crash. If the battery is damaged internally, you may not notice. According to the AMA, several members' cars have already burned up this year due to this scenario.

Li-Poly Quick Reference
C = Current
S = Serial
P = Parallel

mAh = milliamp hour
rating of a battery's
capacity under load.
1000mAh = 1 Amp

- Do use common sense and respect the energy that is stored in that little package.
- Do follow all manufacturer ratings and specifications for use and storage.
- Do store your Li-Poly packs in a fire-proof container.

Li-Poly batteries are used everyday safely in cell phones, laptops, consumer electronics, and iPods. In our hobby, we are pushing these batteries to their limits, charging and discharging them at high rates and sometimes smashing them into the ground at high speeds. We need to respect their potential and

keep it safe.

Enjoy the power and convenience of electric flight with Li-Poly batteries; I do. Just respect the energy stored in that little Li-Poly package and it will reward you with some of the fastest, 3D-est (if that is a word), most fun flying you will have.

Pending Memberships

Les Riley
AMA #884743



Join the group email list on Yahoo! Groups
go to <http://groups.yahoo.com/group/snhrc>

Next Meeting:

Tuesday, June 12th
Wagner Field
7:30 PM

Come early and bring
something to fly!