

Home Field for "Fly For Tots"

November, 2012

Raleigh Durham Radio Control

AMA Charter 733 / IMAA Charter 724

Best Issue Yet!

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**RD-RD Member
123 Aircraft St
Raleigh Durham, NC**



Raleigh-Durham Radio Control

November 2012

Official Newsletter

Volume 21, Issue 11



CHARTERED CLUB

AWARD OF
EXCELLENCE



PRESIDENT'S

Prop-Wash

RDRC Runway Assessment: We are making ok progress with members paying their assessments dues, but we are only half way there. Out of the 111 members that were ear marked to pay, only 53 have. Again we ask that your one-time \$100 or first payment of \$55 be made ASAP. It's a perfect time not only to pay your runway assessment but also to renew your 2013 membership. Remember, you can either pay an officer in person (cash/check) or mail a check to Dustin.

Dustin Hedrick
7212 Stuart Drive
Raleigh, NC 27615

Elections: Well it has been a few years since we had a club election, but we do have the Treasurers position up for grabs. The current candidates are Dustin Hedrick and Patrick Taggart. At the November club meeting we will have a vote to elect the 2013 treasurer. All of the other club positions will stay as is.

Also, Joe Horvath will be stepping down from newsletter editor at the end of this year. He has done a great job with the newsletter this past year and has set a really high bar for all that follow. If you are interested in being the next editor, let myself know.

RDRC XMAS Party: The date has been set: December 19th 2012 at Milton's at the corner of Six Forks and Strickland Road in North Raleigh. This catered party will be 15.50 per person and we need at least 25 people in order to book the room. Please RSVP to mikeh@ipass.net so we can get the head count no later than December 11th, 2012. Also to make it simple for billing we ask you write a check payable to RDRC and bring it the day of the event and then in turn RDRC will pay Milton's with one check.

Visit the new club website at <http://www.rd-rc.com>

The \$15.50 fee covers:

Entrée, garlic bread, salad and soft beverage of your choice.
Alcohol is available but not covered by the fee

Salad choices:

House salad
Caesar salad
Salad bar

Entrée choices:

Beef or Spinach Lasagna
Fettucini Alfredo
Grilled Chicken and Veggies
Baked Ziti
Spaghetti
Chef's Salad
Grilled Chicken Caesar Salad

Field Work Day: As a post runway install effort, a group of RDRC members got together to make the grass to asphalt transition a little smoother and to smooth out the ruts caused by the paving company on the North and South ends of the runway. Thank you so much to these individuals for coming out and saving the club some money by doing the work ourselves.



Picture by Michael Hollowell

Pig Pickin / Swap Meet / Fly in: On November 10th, 2012 we had a GREAT turnout for this first annual event. Pork from Johnny's BBQ in Louisburg was the main course and attending members brought a dish to pass. We had PLENTY of food to go around at least 2-3 times. On top of the great food was the great weather; sunny, warm, & light winds... you couldn't ask for a better day.



Pictures by Michael Hollowell & Ken Wade

Toy Collection for Franklin County Department of Social Services: Don Hurlbut and his wife are doing a toy collection for Franklin County DSS. If you plan on donating a new unwrapped toy to this worthy cause, please contact Don at : Wookie77@earthlink.net

Meeting: Nov 28th at the Pullman house location.

7:30-8:00 : Show and tell... (This will allow time for people to funnel in)

8:00-9:00 : Club business & elections

9PM till ??? – the postponed talk (from October) with Mr. Electric Patrick Taggart.

REMEMBER: NO PARKING ON THE GRASS AT THE PULLMAN HOUSE

Safety Officers Report



Mark L. ofgren

SAFETY FIRST...

AMA 2013 membership cards are appearing in our mailboxes accompanied by a copy of AMA's flight rules. Please review these rules as well as RDRRC's "Flight and Field Rules." These can be found at the club's website. You will notice many similarities between the two sets of rules because RDRRC's rules are based in those of the AMA and also address safety needs of RDRRC. Both are based in the need to adhere to insurance regulations while also assuring the safety of the flyer, the person at the next flight station, people in the pits, and spectators. Attention to safe behavior is an assumed obligation when one joins the AMA and RDRRC.



Be safe...be respectful...be courteous.

A rule is a rule. No superior rule. Its like God's Commandments. You break one, you've broken all. — [Joshua Nyambuti](#)

Notices - Upcoming Events

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Please remember that the next Monthly Meeting will be held at The Pullen House on  
Wednesday, November 28, 2012 starting at 7:30 PM.  
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Only one event in North Carolina over the next month. Winter seems to be inevitable.  
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12/1/2012 -- Lenoir, NC (C) MODEL EXPO AND SWAP MEET. Site: Caldwell Aeromodel-
ers. Vic Welland CD PH: [828.381.8133](tel:828.381.8133) Email: vic_welland@yahoo.com. VENDORS AD-
MITTED FRIDAY 5:30 TO 9PM, SAT 7AM, GENERAL ADMISSION \$5 KIDS UNDER 12
FREE TABLE RENTAL \$15/\$20 (WALL) GENERAL ADMISSION 8AM. REFRESHMENTS
WILL BE AVAILABLE. FOR TABLE RESERVATIONS CALL DON BOURDON, [828-728-
0249](tel:828-728-0249) Sponsor: CALDWELL AERO MODELERS
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# Notices - Upcoming Events

## The variable C and how it applies

### The variable C

Even though C is printed in some way on every lipo we buy, many people do not fully understand what it is or how to figure it out. Simply put C is a variable just like X from your algebra days. It is tied to a capacity of a lipo and as such can be used to figure things like charge rates and maximum continuous discharge rates.

Since C is tied to the capacity of the pack, it can be used to estimate charge times, discharge times and stress. For example if a pack is discharged at 1C, it will be totally discharged in 1 hour. It will also be charged in 1 hour when fully discharged. At 2C those times are cut roughly in half and at 3C those times will be cut down to roughly 1/3rd.

Figuring out what C is for a particular pack is simple, just take the capacity of the pack in mAh, divide it by 1000 to get Ah and then drop the "h", that is C.

For example C for a 2200mAh 3s pack is 2.2A. Start by dividing 2200mAh by 1000 to get 2.2Ah. Then drop the "h" to get C=2.2A. It is as simple as that but here are a few other examples

850mAh 2s 15C lipo

C = .85A

5000 6s 35C/45C lipo

C = 5A

2500 12s 25C/50C lipo

C = 2.5A

**Important concept:** Note how the number of cells in each pack, as well as other ratings, have no impact on C. Only the capacity is used to determine C.

### Using C

Now that we know how to find C, we can use it to figure out important numbers like the 1C charge rate for a pack or how many amps a pack can output continuously. So take the first example pack, a 2200mAh 3s pack. What is the 1C charge rate? We just multiply the numbers to find out.

The 1C charge rate for a 2200mAh 3s pack

$$1C = 1 * C$$

$$1C = 1 * (2.2A) = 2.2A$$

Next the 2C charge rate for the same pack

$$2C = 2 * (2.2A) = 4.4A$$

Lastly the 5C charge rate for the same pack

$$5C = 5 * (2.2A) = 11A$$

Now that we know C and how to calculate the charge rate for the 2200 3s pack, lets expand on the uses for C and figure out the maximum continuous discharge rating, or maximum amps. Say the above 2200mAh pack is rated at 25C/40C. This means that the continuous discharge rating of the pack is 25C and the burst rating is 40C.

$$25C = 25 * C = 25 * (2.2A) = 55A$$

$$40C = 40 * C = 40 * (2.2A) = 88A$$

For repetition sake, lets do the same exercise above with a different pack. This time lets use a 6s 5000mAh 20C/30C pack. First the 1C, 2C and 5C charge rates

$$1C = 1 * (5.0A) = 5A$$

$$2C = 2 * (5.0A) = 10A$$

$$5C = 5 * (5.0A) = 25A$$

Now for the max discharge ratings, both 20C continuous and 30C burst.

$$20C = 20 * C = 20 * (5.0A) = 100A$$

$$30C = 30 * C = 30 * (5.0A) = 150A$$

# RD-RC Aircraft



# RD-RC Aircraft



# RD-RC Aircraft



# RD-RC People



# RD-RC People



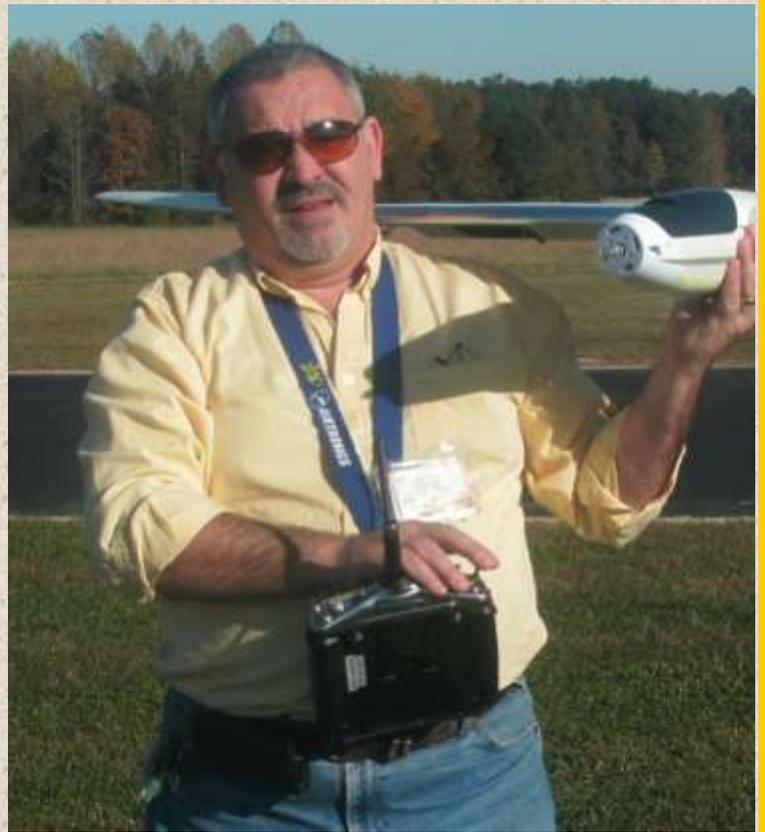
# RD-RC People



# RD-RC People



# RD-RC People



# RD-RC People



# RD-RC BBQ Lunch / Swap Meet



RDRRC

2012 Officers

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919-426-3434

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**Vice President:**

Dave Hedrick  
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**Treasurer:**

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**Secretary &  
Membership Secretary:**

Patrick Taggart  
919-556-0428

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**Safety Officer:**

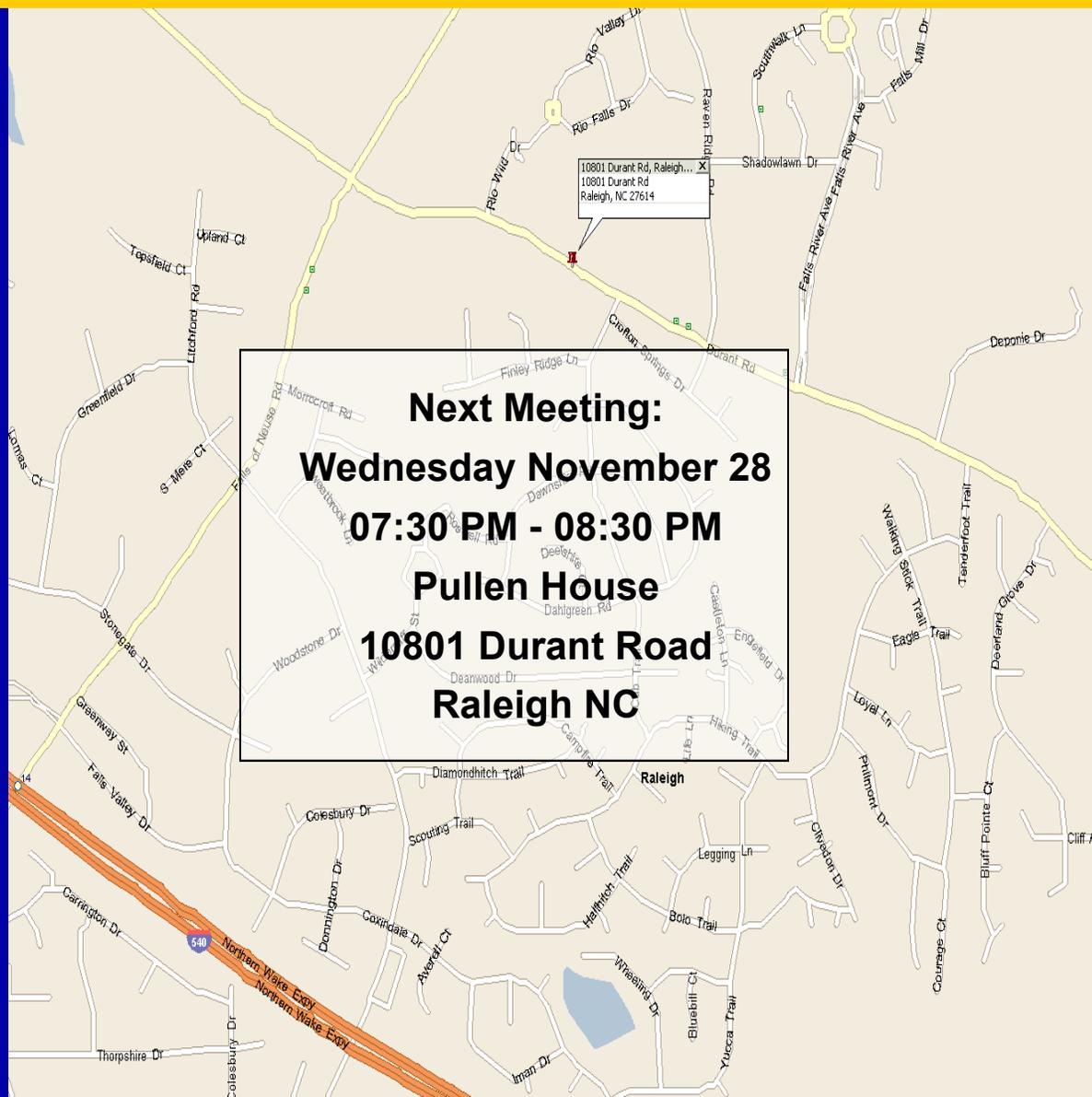
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Newsletter

**Editor:**

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919-392-5119

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**Submittals:**

All club members are urged to submit material to be published in the newsletter. The material should be received by the second Saturday of each month. Text is easily submitted in the form of regular mail or e-mails sent to my address above, photos can be attachments in any format that your camera produces (or scanned photos).

Thoughts from the slipstream...

If you know anyone that is not receiving this newsletter, but should **be, then please forward that person's email address to me. That way, I** can get newsletters out to that person.

**I am looking forward to the next Club Meeting. It's been a few months since I've been able to attend one, and I like to keep in touch with the** Management. Please note that the meeting will be held Wednesday, November 28, 2012 at the Pullen House on Durant Road.

**It's night flying season once again. If you have not been out to the** field recently as the sun begins to set, you really need to make a point to come and see all the night flyers. Better yet, get your night flyer out and join us!

The Ed

