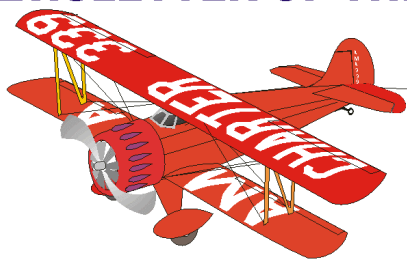


NEWSLETTER OF THE CHARLES RIVER RADIO CONTROLLERS, INC



CRRRC FLIGHT-LOG

<http://www.charlesriverrc.org/>

AMA CHARTER 339

May 2006

VOLUME 43 NUMBER 5

2006 CRRRC OFFICERS

PRESIDENT
Jean-Pierre Riu
508-668-2434

president@charlesriverrc.org

VICE -PRESIDENT
Tony Davids
978-568-9598

vicepresident@charlesriverrc.org

MEMBERSHIP SECRETARY
John Nilsson
978-368-7136

membership@charlesriverrc.org

RECORDING SECRETARY
Lee Arnold
978-443-6149

leearnold@verizon.net

TREASURER
Jon Leehey
508-358-5721

treasurer@charlesriverrc.org

NEWSLETTER EDITOR
David Spielman
978-440-9308

newsletter@charlesriverrc.org

NEWSLETTER CIRCULATION
Tomer Jackman
508-786-1993

circulation@charlesriverrc.org

Ex-Officio and RAFFLE
CHAIRMAN
Andrew Johnsen
978-369-0377

ex.officio@charlesriverrc.org

WEBMASTER
Joel Foner
508 653-3560

webmaster@charlesriverrc.org

GENERAL MEETING

Wednesday May
17th at 7: 30 PM

WINTER PROJECTS NIGHT

Come one come all! Bring in your winter projects and show off your craftsmanship. Once a year we dedicate a meeting to winter projects. Take this opportunity to see some of the finest model aircraft on the East Coast.



Table of Contents

Raffle Prizes	1
Presidents letter	2
Treasurers report	3
Yahoo Group	3
April General Meeting Notes.	4-5
2006 AIAA/Cessna competition	6
Davis Field flying	7-8
Fun Fly & HLG Contest.....	9-10
CRRRC Building & Flight Instructors.....	11
Membership Statistics John Nilsson.....	11
2006 CRRRC Membership Application	12
Map & Directions!	13
Electric Conversion project	13

MAY RAFFLE

First Prize

Your choice of
Threedee from Hobby Lobby



OR

FMA Quantum 8 receiver



Second Prize



Causemann 400 size SAAB
Gripin in Depron Foam.

and

WON
a
COOL TOOL

for
Show-n-Tell

President's Letter



The nice weather is finally here and flying activities are heating up. Bill Martin Field is in great shape thanks in large part to volunteer work done by the Millis club. In addition to the field work, they put up a very professional looking new sign that makes a great first impression when coming up the road. A heart felt thanks to the guys at Millis and especially to Ted Zaborski who designed, constructed and arranged the installation of the new sign. Ted is an artist.

For those of you who do not often make it to Medfield, the June 11 Family Fun Fly and Picnic is quickly coming up. Last year was very successful with a great turn out. Please plan on coming out even if it is just for a short while. We will have coffee and donuts for the early birds and later Ken has again volunteered to serve the famous Antonellis dogs. The day will be relaxed and is a good chance to get together with family and friends for some fun in the sun and of course, flying. We plan to have a few trainers with buddy boxes available so everyone should have a chance to try their hand at R/C. I hope to see you all there.

As if we didn't have enough excuses for flying, the board of directors decided to try something we haven't done in a while. We will hold the June and July club meetings at Medfield and Davis respectively. The idea is to take advantage of the longer days and get a little flying in while taking care of business. The earlier you arrive at the

field, the more flying you can get in. Finally, here is a chance to actually fly that show and tell you bring to the meeting, Depending on the response, we may decide to make this a permanent part of our summer meetings.

We are looking for someone to either help Joel Foner with the web site or take over the duties of Webmaster altogether. Joel has been kind enough to be the CRRC Webmaster for many years now and he has done an exceptional job. It is not fair for us to continue to impose on Joel's time without a break. We are looking for someone who has experience using Front Page and some basic skills dealing with web pages. If you think you could help, please email me or even better, Joel directly and let him know that you are interested. Here is an opportunity for anyone who has not volunteered to help in the past. We need everyone to pitch in so let's hear from anyone who can help.

I have one last item to bring up. It has come to my attention that with the advent of spread spectrum radios, the question of frequency pins has come up. It is obvious that we do not need to worry about using pins to guard against frequency conflicts however, we should consider whether there is a need for anyone using spread spectrum radios to use a pin to announce their intention to fly, to let everyone know that they are on spread spectrum and to hold their place when we are using pins as a queue. I know it can be unnerving to see three people flying and only 2 pins on the board so it may make sense to come up with a spot on the board for spread spectrum flyers. Something to think about, in the mean time I will get some input from the Millis Club.

-JP



Treasurers Report

TREASURER'S REPORT

Report Date 04/08/06

Starting Balance 04/01/06	
Checking	\$3,081.74
Savings	\$2,900.26
Cash Box	\$25.00
PayPal Acct	\$33.68
CD Accounts	\$4,630.99
Total Starting	\$10,671.67
Income	
Raffle income, Apr '06	\$76.00
2006 Dues income	\$511.00
Transfer from PayPal account	\$72.22
Interest - Savings	\$1.43
Interest - CDs	\$12.62
Total Income	\$673.27
Expenses	
Newsletter expenses, check #1485	\$33.00
Medfield expenses, check #1486	\$170.79
Buddy box & cord, check #1487	\$51.98
Scale Team raffle tickets, check #1488	\$40.00
Raffle prizes, check #1489	\$170.00
MA subscriptions for Goodnow & Natick, check #1490	\$32.00
Total Expenses	\$497.77
Ending Balances	
Checking	\$3,243.19
Savings	\$2,901.69
Cash Box	\$25.00
PayPal Acct	\$38.54
CD Accounts	\$4,643.61
Grand Total Ending 04/30/06	\$10,852.03

-Jon Leehey
CRRC Treasurer



If you recently joined CRRC you may not know that the club maintains an email list hosted by Yahoo Groups. The list is restricted to current and past club members. It is used for organizing CRRC events, announcing club business (like the monthly meeting), and general discussion of RC matters.

We invite all members to sign up for this list. To do so, you can send a message to the list moderator Dave Walter (walter@TopLayer.com), or visit the sign up page on the club website at

http://www.charlesriverrc.org/crrc_emailist.htm.

This service allows you to tailor it to your needs. To do so, you need to establish a Yahoo account. Once you have an account, you can adjust your mail preferences to get individual messages, one bulk message once a day, or no mail at all. If you select the no mail option, you can still read the message using the Yahoo web interface at

<http://groups.yahoo.com/group/crrc>. Note that even if you select the no mail option, high priority messages like meeting announcements will still be mailed to you. If you don't want to bother with the Yahoo account, send a message to Dave Walter and he can set your mail delivery option.

-Dave Walter

**RENEW YOUR 2006
MEMBERSHIP TODAY!**

Sign up and support your club. Early renewal helps keep us strong. Use PayPal or check when renewing your membership.





APRIL GENERAL MEETING NOTES



Secretary's Report:

April 19, 2006 General Meeting

The meeting was called to order at 7:45 PM by president John-Pierre Riu. The Secretary's & Treasurer's Reports were approved as written in the newsletter.

Field Reports

Medfield has been given a spring renovation by the Millis Club. CRRC will do some roadwork at the field. Davis field is still there. Lincoln Ross redid the frequency board. Ten members showed up to clean the field. The town of Sudbury passed the motion to upgrade the High School athletic field. This is great news because the only scheduled use of Davis Field is Soccer on Saturdays noon to four PM.

Old Business

John Nilsson on membership, reports 114 members including 8 new members. The signup rate continues to lag previous years. No other old business.

New Business

There will be a Family day at Medfield. The date has been set for June 11, 2006. We will be looking for a couple of trainers for visitors to fly. The Marlborough Boy Scouts may be in attendance.

The Top Gun contest took place at the end of April in Lakeland, Florida. About twelve CRRC members will be in attendance.

New Pilots

Dan Murphy soloed with his T-Hawk. Dick Williamson was there to help with the solo flight. At the start, Dick took a call from his daughter and turned around for a moment and by the time the conversation ended Dan

had taken off flown a pattern and landed.

Guests

Tom Camilla of Ashburnham, MA is interested in soaring and is working on bagging foam wings. We will be seeing him at Davis field this summer.

Dave Rajczewski he is looking forward to flying at Team Works and Dear Island.

Jackie, John-Pierre Riu's daughter, is a full-scale student pilot. Jackie was at the meeting to hear our guest speaker speak on full-scale aerobatics.



Raffle

The first prize, a Lark 3D from Esprit Model for electric motor or glow engine was won by Bob Scott.

Dan Murphy won second prize. The prize was a Sunbird, HLG donated by Jose Bruzil.

Show & Tell

Jeremy Harkin showed a profile bi-plane powered by a Satio .91 at about five pounds; it should be a great flier.



Andrew Johnsen showed a Potensky Eagle from Hobby-Lobby. With a three-cell li-poly, it flies great. The weight came in at about 9 ounces.



Tony Davids brought a T-Rex chopper. This recently repaired model had suffered a swash plate separation mid-air. At a cost of approximately \$100, the chopper looks like new.



Corey Hallock brought a glider he received for free. He will be coming to Davis Field for some free advice.



David Spielman showed his Cloud Hopper that he purchase at the club auction. With a new AXI 28/20/10 motor and a rebuilt fuse and three li-poly cells. Dave is looking forward to many flights this summer.

Ken Antonellis brought in an electric bi-plane. With two li-poly cells and 65 watts of power there is a little too much flexing in the fuselage.



Guest Speaker

The guest speaker was member Steve Pennypacker. Steve is a full-scale aerobatic pilot. He showed some great video from the cockpit of his Pitts Bi-plane. There was both still photos and video intermixed. The plane was a 220 HP Pitts with a three blade composite propeller.



When asked about power Steve commented, " if it's controllable, you don't have enough power." It could be seen from the photographs that the plane has a pretty sparsely populated cockpit. He explained that what you really need to know is: how fast, how high and how hot is the engine. With fuel at \$5.00 per gallon and a 24-gallon fuel tank, it made filling our cars seem like a real bargain. Fuel economy overall is about 13 G/Hr.

One of the interesting things about Steve's talk was the explanation of the contest. It all takes place in a cube, 1000 meters on a side. The first time you try the routine, the plane almost seems bigger than the box. At Pitts speed you have about 12 seconds across the flight box. As Steve said about aerobatics, on their first flight, people either love it or hate it. We all loved it. Thank you Steve.

-Lee Arnold

UPCOMING EVENTS

Sunday June 11, 2006 - CRRC Family Fun-Fly and Picnic. Bring your family for flying, fun and food! Takes place at the Bill Martin Field in Medfield. Contacts: Tomer Jackman and Jean Pierre Riu

Saturday and Sunday, July 15 and 16, 2006 - CRRC/ESL Hand Launch Classic HLG Contest. Takes place at Davis field. CD: Jose Bruzual (jebnet@bruzual.com) 518-798-1321. Novice and expert groups will have separate competition. Workshops will be offered at the contest. A contest participant only raffle will have some super prizes including several competition class DLGs. This is an excellent contest for all, so start building! More info at <http://www.flyecm.com/crrc/>

Saturday and Sunday, July 29 and 30, 2006 - Annual RES contest! Takes place at Davis field. Lunch and refreshments served. CD's: Tracy Clark and Dick Williamson. This contest is a great way to meet and compete with fliers from around the area. First and second year fliers should consider getting their feet wet at this contest.

Saturday and Sunday, August 12 and 13, 2006 - Annual CRRC/ESL Open Class Soar-In. Takes place at Davis field. CD's: John Nilsson and Anker Berg-Sonne. Join the Eastern Soaring league at www.flyesl.com and sign up for this contest. World-class fliers from around the East coast will be here to compete. Sportsman and Expert classes will be ranked separately, so novices are encouraged to enter.

-David Spielman



2006 AIAA/CESSNA DESIGN-BUILD-FLY



The 10th annual American Institute of Aeronautics and Astronautics (AIAA) design-build-fly competition, co-sponsored by Cessna Aircraft, was held in Wichita KS in late April. 48 university and college teams were registered to compete in an event that has grown tremendously in popularity, competitiveness, and engineering excellence. In a nutshell, the competition requirement is to design, build, and fly an electric powered radio controlled aircraft that meets certain stringent rules and requirements. This year, the aircraft had to be capable of carrying an 8 lb block of wood measuring 4"x4"x24"; 96 tennis balls carried 48 at a time; and the teams' choice of 2 to 5 2-liter water bottles each weighing 2.2 lbs. The aircraft could use brushed or brushless motors and were limited to a 3 pound maximum motor battery pack which had to be nickel cadmium or nickel metal hydride - no lithium polymer batteries allowed!

The flying competition required the planes to ROG within 100 feet and fly single laps of a 1000 ft course, turning around pylons at the ends, landing after each lap to switch payloads. A competitive score could be attained by the following: minimum aircraft weight (minus payloads); a technical design document graded by judges beforehand; and completing 2 out of 3 missions offered. Ground crews were timed on their ability to retrieve the aircraft after landing, changing out the payloads, and observing strict safety rules.



In picture 1, we see the lineup of planes headed for the official flight line. Flights were carried out at a Cessna Aircraft auxiliary field used for flight tests. Temperatures on both flight days were in the low to mid 90s and the 15-20 mph winds were down the runway, thankfully.



In picture 2, we see the "Black Lightning" aircraft entered by the Black team, Oklahoma State University. OSU won this event this year placing 1-2 as it has for three years in a row (!). Their plane is very light, weighing only 4.7 pounds - which includes the motor and a 0.9 lb motor battery. The fuselage is a lightweight fiber glassed balsa shell and the wings are built up.



In picture 3, you can see the triple-fuselage, three-engine entry from the University of Oklahoma. The payloads fit into the carbon fiber fuselages and the aircraft flew very well in the wind. Finish and workmanship of this plane, and of most of the planes entered, was extremely good.



Picture 4 shows an amazing aircraft, a flying wing entered by the University of Southern California, which finished fourth overall. All built up and very light, the plane's landing gear was designed to hold the aircraft at a 20-25 deg nose up attitude at rest. When power was applied, the plane flew away with almost no ground roll. In the air, the USC plane was fast and stable, looking like a futuristic space-plane. Landings were tricky as the aircraft has centerline-mounted landing gear with tip skids, and the plane wanted to bounce into the air on landing due to the landing gear's nose up attitude.

The originality and enthusiasm of the student teams was refreshing and very exciting to witness. The quality of the aircraft was high with many innovative approaches used to get the magic combination of lightweight, strength, and performance. If any readers would like to know more about the event, please feel free to contact me with any questions. More pictures and further details will be written up in the August issue of R/C Report magazine.

Peter Young
e-mail: pwyoung@ix.netcom.com

DAVIS FIELD FLYING

This weekend was picture perfect for flying. Saturday morning winds were 1 to 3 miles per hour, light clouds filled the sky and temperatures in the mid to upper sixties.

The local Cub Scout troop was flying model rockets on the lower field as both electrics and gliders covered the upper field.



We saw some new and interesting planes. Fritz Bien had a brand new slow build Bubble dancer weighing in at 42 oz and sporting a 124" wingspan. This plane was notable for long graceful flights. Control was super as several guest pilots can attest.



There was a slick looking scale glider, which flew quite well. The glider sported retractable landing gear and a beautifully detailed cabin. This three-meter plane was carbon fiber over foam construction. Unfortunately there was a mishap during one launch and the cabin was damaged.



Several 3-D models were present as were spectators. 3-D flying has great audience appeal for both fliers and non-fliers. All were treated to several sets of aerobatics.



Bruce Schneider brought in his new six foot Telemaster equipped with an Axi 2826-12 outrunner and 4200 mah LiPo battery. If you are a fan of power planes, and want to try electric, this is a super flying plane.



Helmut had his hand launch plane. He uses an Ascent wing on his own design fuselage. They fly very well.



Les takes a turn flying the Bubble Dancer.



Derick Veliz

Tomer brought if home made DLG. This model is notable for its score of 100/100. That is \$100 and 100 hours.



Derick Veliz

Of course there were a few Mantis' at the field.



Derick Veliz

Come down to Davis Field, weekend mornings; join the fun or just watch. Guests are welcome. CRRC rents the field every Sunday from 10 to 1:00.

-David Spielman, Sudbury, MA



Charles River Radio Controllers 2005

FAMILY FUN FLY

*Join us! On Sunday June 11th, 2006, 10:00AM to 2:00 PM
At the Bill Martin RC flying field, Medfield, MA*

Bring your kids and planes too!

(That is if they fit after the kids are in)

*We will have trainer airplanes available for newcomers to try, as well as gliders,
aerobatic airplanes and helicopters!*

Some RC ground fun with RC trucks/cars as well!

Food and refreshments will be available, and don't forget your hat



*If you want to add some hiking – biking – canoeing, here is some more info :
http://www.thetrustees.org/pages/360_rocky_narrows.cfm*

*Jean-Pierre Riu & Tomer Jackman CD
Jpr(@)jriu.com or Jackman_tomer (@) EMC.COM*

Charles River Radio Controllers Hand Launch Classic

July 15 – 16 , 2006

Sportsman, Expert flier categories

Awards: * Trophies 1st–3rd place each day
* Weekend champion

**Davis Field, Rte. 117
Sudbury, MA**

Entry fee: \$17 per day, \$30 for both days
One raffle ticket included.
Lunch provided on field.

DLG info session/clinic on Saturday.

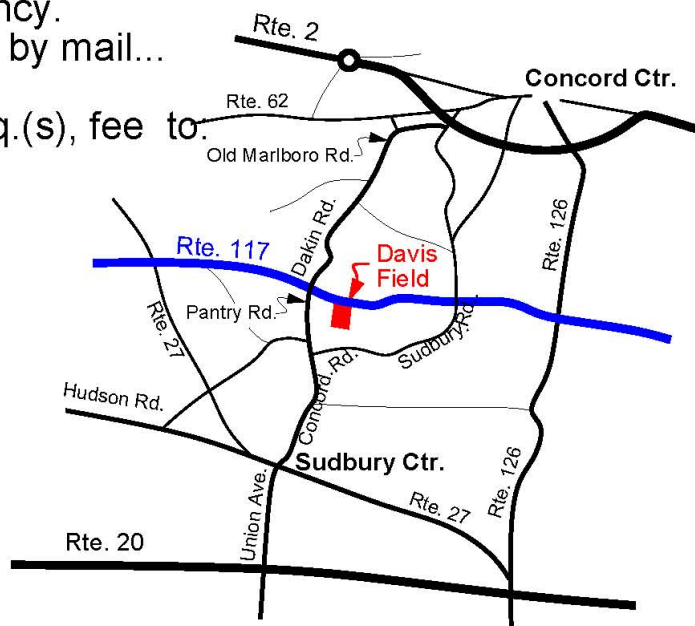
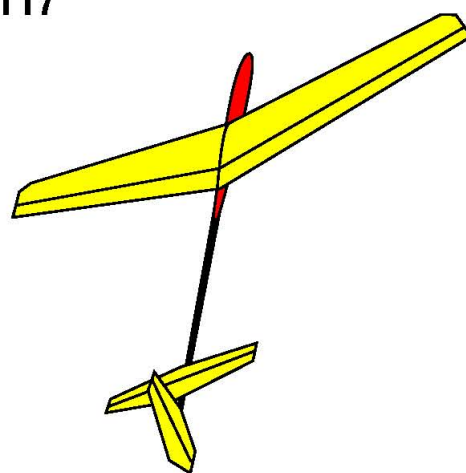
NO registration at the field.
Check-In: 8:00–8:45 AM
Pilot's meeting: 9:00 AM
First round start: 9:15 AM

No more than 2 fliers per frequency.
Register at www.flyesl.com , or by mail...

Send name, AMA#, date(s), freq.(s), fee to.

Mark Drela
218 Thorndike St. #205
Cambridge, MA 02141
drela@mit.edu
617 253 0067

Visit www.flyecm.com/crrc/
for additional info.



CRRC BUILDING AND FLIGHT INSTRUCTORS

This is our list of qualified and willing instructors. Power planes are flown only at the Bill Martin Flying Field in Medfield. Sailplanes and Electrics can be flown at the Davis Farm Field on Rte. 117 in Sudbury. See <http://www.charlesriverrc.org> for directions to the flying fields. If you have any questions about the construction of your airplane, or want to have an experienced pilot pre-flight check your airplane before heading to the flying field, then call any of the building instructors.

INSTRUCTOR CONTACTS

Chief Instructor and Safety Officer: Jeremy Harkin
jeremy_harkin@yahoo.com
 (781-894-6683)

POWER:

Bob Scott	Norwell	781-982-0268
Pete Young	Watertown	617 923-4184
Ken Antonellis	Natick	508-653-4513
Jon Leehey	Wayland	508 358 5721
Dave Walter	Hudson	508-562-5400
Fritz Bien	Concord	978-369-1720
Neil Kaufman	Sudbury	508-443-9647

ELECTRICS:

Bruce Schneider	Hudson	978-562-9900
Fritz Bien	Concord	978-369-1720
Dave Walter	Hudson	978-562-5400
Derrick Veliz	Acton	978-266-1739
Pete Young	Watertown	617 923-4184
Lincoln Ross		

SOARING:

Dick Williamson	Sudbury	978 443-8549
Dave Walter	Hudson	978-562-5400
Bruce Schneider	Hudson	978-562-9900
Fritz Bien	Concord	978-369-1720
John Nilsson	Clinton	508-368-7136
Pete Young	Watertown	617 923-4184
Lincoln Ross	Waltham	781-891-0332

HELICOPTERS:

Tony Davids	Stow	978-568-9598
-------------	------	--------------

BUILDING:

Ruane Crummett	Wayland	508-655-2234
Fritz Bien	Concord	978-369-1720
Joel Foner	Natick	508-653-3560
John Weigel	Natick	508-653-3560
Pete Young	Watertown	617 923-4184
Derrick Veliz	Acton	978-266-1739

TREE CLIMBERS & MEMBERSHIP STATISTICS

TREE CLIMBERS

Tony Morais

A1 Tree Services-Framingham, MA
 508-626-0088 800-657-7788

Kenny Greeno

Office Phone: 617-661-8591
 Cell Phone: 617-201-5300

Paul Harrington

(508) 376-2573 [Medfield Area]

you. Ken Antonellis is the keymaster. Try kxa@verizon.net. Alex of Alex's RC in Belmont also has keys. Show him a club badge to get the key.

MEMBERSHIP

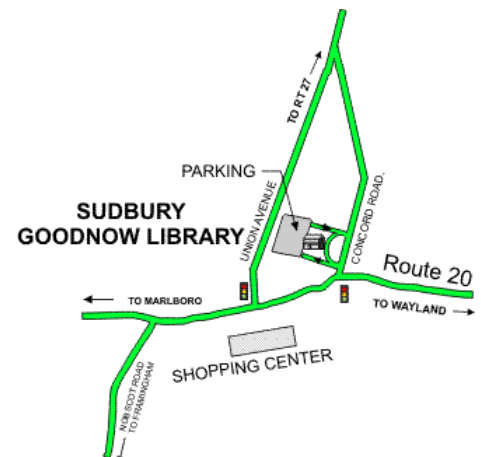
Here are the updated CRRC membership figures for 2006. The table summarizes the membership status from 1999 through current month, 2006.

Year	Renewals	New Members	Peak Totals
1999			135
2000	112	62	174
2001	124	50	174
2002	138	58	196
2003	156	40	196
2004	153	42	195
2005	144	20	164
2006	109	11	120

-John Nilsson

MAY DIRECTORS MEETING

The next directors meeting will be, Tuesday, May 23th at 7:30 PM, at the Sudbury Goodnow Library. All club members are invited to attend.



KEY INSTRUCTIONS

2006 season keys are available! To get a Key for Bill Martin Field in Medfield, email Jean-Pierre Riu or Ken Antonellis. They will send out instructions as soon as they hear from



THE CHARLES RIVER RADIO CONTROLLERS, INC

2006 MEMBERSHIP APPLICATION

AMA Charter 339

THIS FORM EXPIRES ON MARCH 1ST 2007!

Name _____ AMA No. _____

Street _____ Birth Date (AMA req'd) _____

Town _____ State _____ Zip _____ Tel. () _____ - _____

E-mail _____

To receive membership card and field pass, bring this application to a club meeting, or mail to the membership secretary (address below). You can pay by check or use PayPal. (PayPal to membership@charlesriverrc.org)

Make Checks Payable to:
Charles River RC

MEMBERSHIP CATAGORY	Rates as of March 1, 2006
☐ OPEN Member	\$40.00
☐ JUNIOR member, (under 19 before 7-1)	\$1.00
☐ SENIOR member, (if age 60 before 7-1)	\$30.00
☐ SENIOR member, (if age 75 before 7-1)	Free if AMA member
☐ Full time STUDENT	\$25.00
☐ Family member additional to OPEN membership	\$25.00

John Nilsson /Secretary CRRC
511B Ridgefield Circle
Clinton, MA 01510
Telephone 978 368-7136
E-mail: photoguy205@comcast.net

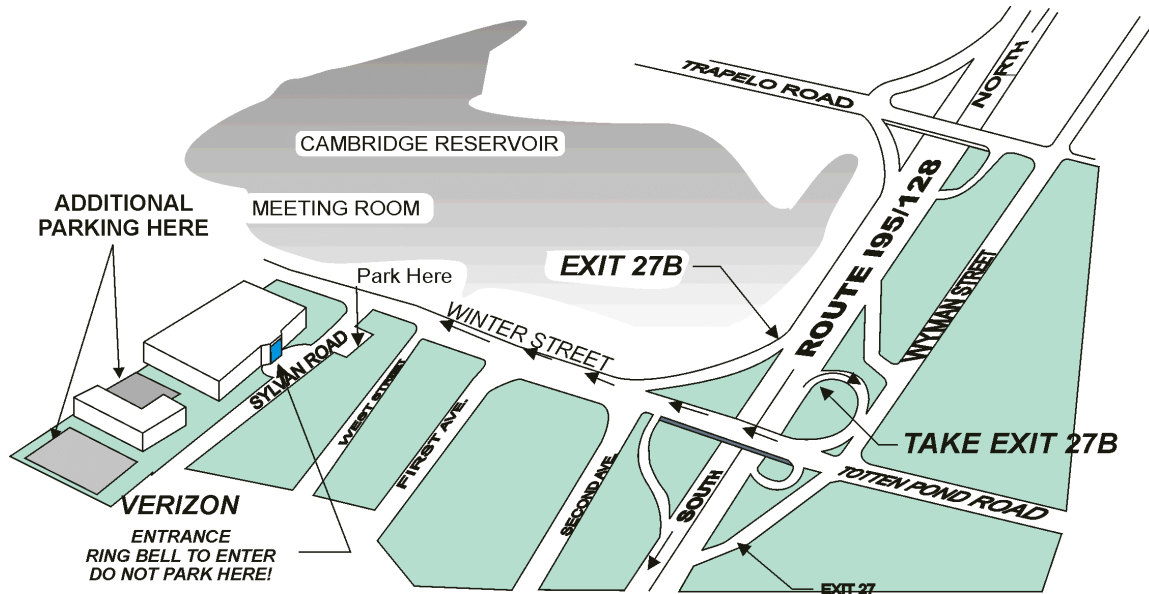
☐ I DO NOT want my address to appear in the club phone book

You must be an AMA member in order to receive your CRRC membership card.

To receive your newsletter by us mail, please contact Tomer Jackman, newsletter circulation at the next meeting. See the newsletter cover sheet for additional contact information.

Help reduce operating costs by receiving your newsletter on line. CRRC pays roughly \$10 per year for each mailed newsletter subscription.

LOCATION OF MONTHLY MEETING
FOR THE CHARLES RIVER RADIO CONTROLLERS
at VERIZON LABS



The Charles River Radio Controllers meets the third Wednesday of each month at Verizon Labs on Sylvan Road in Waltham Mass. Guests are always welcome. Look for the Newsletter announcement one week before the meeting.

Spring Flying



This electric powered Telemaster from Hobby-Lobby is a good project for the modeler who wants to make the jump glow to electric, but wants the classic feel of vintage model flight. Bruce Schneider completed the Telemaster this winter and has had it on Davis Field several times this season. It has the same great handling as his glow version.



If you want to make the jump from fuel to electric come to the club meeting and talk to some of the experts.



David Spielman / Editor