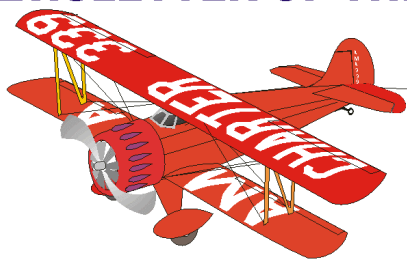


NEWSLETTER OF THE CHARLES RIVER RADIO CONTROLLERS, INC



CRRRC FLIGHT-LOG

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

AMA CHARTER 339

March 2006

VOLUME 43 NUMBER 3

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GENERAL MEETING

Wednesday
March 15th
7: 30 PM

MINIATURE AIRPLANES

Gordon Johnson will speak about miniature airplanes and their power systems including micro brushless outrunner motors. Gordon will bring a variety of planes to the meeting. This will definitely be fun.



Table of Contents

Raffle Prizes	1
Presidents letter	2
Auction Action	2
Treasurers report	3
February General Meeting Notes.	4
Upcoming Events	5
Yahoo Group	6
Davis Field cleanup	6
Doing the Job Alone	7
CRRRC Building & Flight Instructors.	9
Membership Statistics John Nilsson	9
2006 CRRRC Membership Application	10
Map & Directions!	11
New Element for the Charts	11

MARCH RAFFLE

First Prize

Your choice from 3

Scorpio F6F Hellcat Electric



OR



Super Chipmunk sized for
size 40 engines

OR



Sunbird HLG Kit donated
by Jose Bruzal

Raffle continued on page 3

President's Letter



I was very excited about the turn out at the February meeting. I counted over 40 people there. Thank you to Tony for arranging for such an interesting speaker. The next couple of months promise to be just as exciting.

This brings me to my topic for this month, attracting new members. The trend over the last couple of years has been a reduction in total membership. While our numbers are still healthy, we do not want to see this trend continue unabated. For us to be able to continue to finance 2 flying fields plus an indoor site and run all the activities that we do, we need to keep bringing new members into the club.

There are several ways that we can do this. First and foremost is to be friendly and encouraging to anyone who shows up at a field and expresses an interest in what we are doing. Take the time to answer questions and engage in discussions. Invite interested people to visit our web site and to come to a meeting. I know we all have busy schedules and our time at the field is precious, but we all need to be advocates for the club.

We also need to do a better job of advertising. We have a very well done 2-page color brochure, which I feel we should get out to our local hobby shops. Now that I know we have it, I will bring some to Hobby Town for handing out. When someone walks into a hobby store and is attracted to the r/c section, their first question is going to be where do they fly those things? For the store, it's good business to have an answer. I will have a bunch more flyers printed for the next meeting and would encourage anyone going

to different shops to take a pile and drop them off on your next visit.

A third avenue for us to get our name out is to do some community displays or events. As an example, in conjunction with the parks department, the Millis club does a show in Milford every year. Our club participates in the Collings Foundation and Woodson Farm events, but these are far enough away that they probably do not attract new local people. If any one has any ideas, please email me or see me at the meetings.

In closing, last month I wrote about building my first model in my parent's house and how they would complain about the smell off dope coming up from the cellar. After the newsletter was published, I printed out a copy and had it lying on the kitchen counter. My daughter was disinterestedly browsing through it over breakfast when she suddenly looked up and said "Dad, I can't believe it, the smell of dope? And you're writing about it?" It had never occurred to me that to the uninitiated, this could be taken two very different ways. I'm still not sure she has accepted my explanation. The reality was that after a few hours painting in a confined space with airplane dope, the effect could be very similar.

-JP

**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.



AUCTION ACTION

We have one last, but not least auction.

March 11th, Central Penn. Flea Market, The East coast's largest, Lebanon, PA www.cpaa.us
Important! Check the website before going in case of date change. One was rumored.

Treasurers Report

TREASURER'S REPORT Report Date 03/04/06

Starting Balance 02/01/06	
Checking	\$4,925.35
Savings	\$903.04
Cash Box	\$25.00
PayPal Acct	\$193.35
CD Accounts	\$4,608.66
Total Starting	\$10,655.40
Income	
Raffle income, Feb '06	\$91.00
2006 Dues income	\$465.00
Transfer from PayPal account	\$193.35
Interest - Savings	\$0.74
Interest - CDs	\$11.90
Total Income	\$761.99
Expenses	
Newsletter expenses, check #1475	\$46.47
AMA rechartering, check #1479	\$270.00
Recognition Awards, checks #1476 & #1477	\$48.13
Stamps & Envelopes, checks #1474 & #1480	\$63.43
Davis Field Permits, check #1478	\$480.00
Dues overpayment refunds, check #1481	\$10.00
Account fee - Savings	\$5.00
Total Expenses	\$923.03
Transfer to Savings	\$2,000.00
Ending Balances	
Checking	\$2,756.67
Savings	\$2,898.78
Cash Box	\$25.00
PayPal Acct	\$0.00
CD Accounts	\$4,620.56
Grand Total Ending 02/28/06	\$10,301.01

-Jon Leehey

Raffle

second Prize

Back by popular demand, a pair of
servos HS81MG's or HS55's

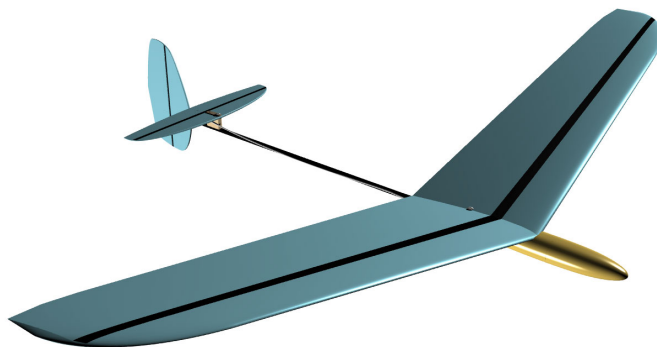
and

WON
a
COOL TOOL
for
Show-n-Tell

RAFFLE PRIZE DONATED BY ENDURO COMPOSITE MODELS

We just received a Sunbird kit donated for the March raffle by Jose Bruzual of Enduro Composite Models www.flyecm.com. This is an HLG designed by the Old Buzzard himself, Dave Thornburg. It's a built-up balsa T-tail polyhedral HLG, produced by Sky Bench Aerotech (www.skybench.com) It features laser cut parts and full size plan sheet.

Jose, who will be organizing the CRRC HLG contest this summer, donated this kit.



Jose's DLG, The Apogee 400 as featured in December's newsletter.

-Dave Walter



FEBRUARY GENERAL MEETING NOTES



Secretary's Report February 15, 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

Davis field has been windy and snow covered. Medfield still has a water level about equal to the road level. Indoor flying at Team Works was great, if a little crowded by the smaller venue.

Old Business

John Nilsson on membership.

91 members. Remember membership renewal will cost an additional \$5.00 if renewed late.

New Business

Ken Antonellis reports that the keys at Medfield will be changed. New keys will be available next month or at Alex's Hobby Shop in Belmont.

Andrew Johnsen is traveling on business, as the past president he would normally present

The Bob Fish Memorial award.

This year's recipient is Dick Williamson. Andrew did email a few words that Ken was kind enough to read at the meeting. "Dick is one of the main reasons I became active in this hobby. His friendly response brought me out to Cow Common to watch him fly and talk about flying. With his invitation and encouragement to come to the meetings and join the club, I became a member." Dick has spent untold hours working with Sudbury Park and Recreation to secure our ability to fly at Davis Field. Thank you Dick!

And from Dick, "good news and bad news about Davis Field. Fees are up 50%, but there should be fewer other users to share the field with!"

New Pilots

There were no new pilots and no solo flights.

Guests

Jerry Lyman, has a completed glow trainer, never flown, and has been flying an electric park flyer. Lots of flights and a few crashes!

Alex Friedman, a young visitor, expressed an interest in learning to fly RC helicopters.

Raffle

The first prize was a was won by Larry Wetmore. He chose two HS51 servos. Second prize was won by John, who chose two HS55 servos. The Cool Tool winner, for show and tell, was won by Dick Williamson.

Show & Tell

Fritz Bien showed a beautiful 1948 Earl Stahl kit, rubber band or CO2 powered Stinson Station Wagon. Fritz replaced the original power unit with a GWS gearbox and brushless motor. The lettering and markings were done on the computer. A very nice model still waiting for that first flight.

John showed a Goldburg ARF Chipmunk. This will be powered by a 3S LI-Po pack. All up weight is approximately 20 oz.

Ken Antonellis showed an entry-level trainer. This was the Hobby-Lobby Wing-Dragon. With two screws to attach the tail and connect the linkage, assembly is very quick. "With everything included, it is a good beginners plane."

Tom Bauer showed us his 3rd generation EPP foam Schwitzer 126 glider. Used for slope soaring, Tom said the only problem was that he could have used five hands at times during the assembly process.

Steve Young shared his DeHavilland Beaver with the GWS float option. Steve said that with the floats it would barley fly. He received several suggestions on re-powering the plane most of which included a change to brushless power.

Jackman Tomer Showed off what he called the Apogee MK III. This plane incorporates a wing left over from a previous Apogee converted to a discus launched plane. The wing was strengthened with interior bracing and carbon for strength. At about 5 oz. It is starting to be a great flyer.

Tracey Clark showed a 3-cell 1650mAh, 8C, li-poly battery from CommonSenseRC.com which sells for under \$20.00.

Lincoln Ross showed Supra booms that he built on a custom machined mandrel. Lincoln will be happy to sell a few once he gets the process finalized. He did say, "It was a lot of work for boom #1."

Dick Williamson showed a broken wig from his 1991 Great Planes Spirit. He showed a stack of ribs for the new wing. The total weight of the ribs as shown is 1 3/4 ozs.

Guest Speaker

The guest speaker was Adam Tashjain who brought along five beautiful scale helicopters. He also brought along with his very proud father, Steven as well as Joe Howard, the East Coast Scale Helicopters, importer for Vario Helicopters. These five helicopters each showed an amazing amount of scale detail. This included full-scale interiors and working lighting systems. Adam in addition to being an accomplished scale builder and flier is also a fourth year pre-med student who will be attending The Dental School at Tufts. This was an amazing show of scale aircraft modeling. Adam says that building and flying scale helicopters is a good way to relax after class.

If you want to see more of these scale machines check out the IRCHA Jamboree coverage in "Model Aviation" Jan 2006 issue pages 2 and 10. Also see the May 2006 "Fly RC" pages 22 and 23 for photographs and descriptions of Adam's Air-Crane.

-Lee Arnold



UPCOMING EVENTS



INDOOR FLYING

Indoor flying will be held on March 11th from 9:00 to midnight. The location will be at Teamworks.



Gordon Johnson
Punkin Bipe

The cost is approximately \$10 per night for flyers. You will have to qualify by flying three circles and three figure eights with your plane before being given permission to fly.

There are field changes for Feb. and March. When you go down the stairs turn to the left field not the right field that we previously used.

From Boston/East:

Mass Pike (I 90) to I 495 North. Take I 495 to Route 9 West to Westborough/Shrewsbury. Stay on Route 9 for approximately 5 miles. Turn right onto Otis Street at Fountainhead Apartments, TEAMWORKS - 200 yards on right.

-Bruce Schneider

MARCH GUEST SPEAKER

There are lots of items to speak about. There is the micro brushless outrunners, like one I built that weighs 2.25g, and the new crop of commercial micro outrunners in the 3.5 to 6g range. I have a 9g plane that I talked my friend Roger Carignan into making and kitting. It's perfect to fly in the conference room. I have the 7mm corless pager motors that have proven useful. The 0.9g Plantraco 900mhz receiver system is

also new. I have lots of planes I will bring to show and tell. You can find many of them on my web site: <http://home.comcast.net/~gordon-johnson/>



Gordon Johnson

Monocoupe BL21

More recent and interesting planes would be my 9g 4mm pager powered Monocoupe which uses the Plantraco equipment and a ball bearing watch gear drive. It's bigger brother, a 1-cell brushless 28g Monocoupe with servos and all. Who knows, my outdoor 18-inch Citabria and it's indoor lighter twin brother might be flyable by then. These are all on my web site, along with newer test results for micro cells and motors.



Gordon Johnson

Gordon's Profile P40 Warhawk

Regards,
Gordon Johnson



Davis Field on Monday morning March 6th is ready and waiting.

DAVIS FIELD CLEAN-UP

Feb 8th, I was in a meeting with Dennis Mannone, Sudbury's Director of Parks and Recreation. I told him that a permit request for flying at Davis Field during spring 2006 is coming. At this point, it looks like there will be sports at the field on most Saturdays, but nothing is scheduled for Sundays!

A port-a-potty will be put in place for the spring season.

In order to keep vehicles off the field, a fence will be erected in roughly the same position where the line of logs sits today. There will be gaps in the fence to allow folks to walk through while keeping cars off the field. When necessary, vehicles will be able to access the field via the gate that the farmer uses for haying and Park & Rec. uses for mowing.

Mark the Davis Field clean up date on your calendar: Saturday, April 8 from 9:00 to 2:00.

Sudbury Park and Recreation is scheduling a clean up of all recreational fields in town for Saturday, April 8. I think that it would greatly benefit CRRC to have some very visible participants in the clean up. Please put that Saturday on your calendar. Davis field is actually rather clean so the clean up shouldn't take too long. That day will also provide a good opportunity to move leftover football equipment off the field so that it is wide open for flying (when not occupied by spring lacrosse).

-Dick Williamson

YAHOO! GROUPS

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 "at" 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



Photo from the "Alegro-Lite Group"

ACCIDENT REPORT: DOING THE JOB ALONE

Dear Sir:

I am writing in response to your request for additional information. In block number 3 of the AMA accident reporting form I put "trying to do the job alone" as the cause of my accident. You said in your letter that I should explain more fully, and I trust that the following details will be sufficient.

I am a modeler and ardent flier. On the date of the accident I had been flying my 40% Extra alone at Davis Field. My plane had lost control due to a sudden glitch in my radio and collided with the top of a 100-foot tall spruce tree at the far end of the field. My plane was pretty heavy because it was imbedded in a large branch. I decided to cut off the branch and



separate the plane from it at my shop. When I completed my work I discovered that I had about 350 pounds of branch and plane stuck together. Rather than carry the load down by hand, I decided to lower them using a pulley, which fortunately I was able to attach to the top of the tree.

Securing the rope at ground level, I went up to the treetop, tied the plane and branch to the rope and swung them out over the ground. Then I went back to the ground and untied the rope, holding it tightly to insure a slow descent the 350 lbs. of plane and branch. You will note in block number 11 of the accident report form that my weight is 135 lbs.

Due to my surprise at being jerked off the ground so suddenly I lost my presence of mind and forgot to let go of the rope. Needless to say, I proceeded at a rather rapid rate up the side of the tree.

At about 40 feet up, I met the plane and branch coming down. This explains my fractured skull and collarbone.

Slowed only slightly, I continued my rapid ascent, not stopping until the fingers of my right hand were two knuckles deep in the pulley.

Fortunately, by this time I had regained my presence of mind and was able to hold tightly to the rope in spite of my pain.

At approximately the same time however, the plane and branch hit the ground and the separated. Devoid of weight of the branch, the plane then weighed approximately 40 lbs.

I refer you again to the information in block number 11. As you might imagine, I began a rapid descent down the side of the tree.

At the elevation of 50 feet, I met the plane coming up. This accounts for the two fractured ankles and the laceration of my legs and lower body.

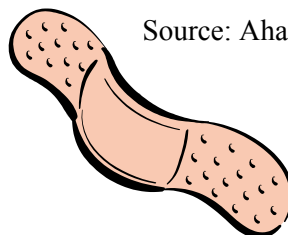
Here my luck began to change slightly. The encounter with the plane seemed to slow me enough to lessen my injuries when I fell onto the branch and fortunately only three vertebrae were cracked.

I am sorry to report, however, that as I lay there on the branch in pain unable to stand and watching the broken plane 100 feet above me, which I again lost my presence of mind, and I let go of the rope. The lone plane now missing its wings, weighed more than the rope so it came down upon me and broke both my legs.

Luckily, my transmitter was not damaged because I had the presence of mind to leave it in my car.

I hope I have furnished the following information you required as to how the accident occurred.
Signed: A non-CRRC Flier.

April-Fools! And the moral of this story is "Call a tree climber!"



Source: Aha! Jokes, www.AhaJokes.com

WRAM SHOW 2006

Well, it was the middle of winter and The W.R.A.M. show was coming up, so it was either clean the workshop or go to the show and spend money!!

For those of you who have not gone, The W.R.A.M. show is put on by the Westchester Radio Aeromodelers Inc. It is held yearly at the Westchester County Center in White Plains, New York. Typically it takes about 3 ½ hours to get there but well worth the trip.

We left about 6:30 or so and stopped for breakfast and arrived at about opening time, which is 10:00 AM. Once inside, we could see booths with about 100 exhibitors, all selling their items. You could buy basically anything to do with the hobby from glues to a radial engine. I typically start a list a few months ahead of time and by the time I get there, there are other items that I can simply not refuse. In my opinion, what stood out was the variety of good quality ARF's (all ready to fly airplanes) and electric airplane supplies. There were also great quantities of radio electronics such as receivers, servos, complete radio setups, wiring harnesses etc.

It seems that most people that I talked to bought an airplane or some electric airplane power plant items. What I did not see this year was much of an assortment of glow engines. I purchased all sorts of neat items including a receiver, cute little servos, a brushless motor and controller, glues, a transmitter battery, tools and some other assorted items. It really is a fun day to get out and spend some time with your flying buddies and to talk airplanes for a day or two. The show lasts for Friday, Saturday and Sunday.

It is also a good opportunity to meet the proprietors of whom you have been dealing with by email or telephone. The best deal of the day was Bruckner Hobbies selling 5 one-ounce containers of instant glue for \$10.00. FMA was selling the cute m5 receiver for \$40.00, which included a crystal.

It was a great day, which was climaxed by a great meal on the way home. The hot wings were fantastic!

-Ken Antonellis

HOBBY TOWN

Hello All... You probably don't know me, but I am one of the real old timers of the CRRC. I got my first few airplane kits from Bob Fish who had his shop in his basement in Saxonville back in 1984.

The Hobbytown USA in Bellingham is owned and operated by my nephew Robert Rice, and has moved to Ashland next door to Sears and Radio Shack on Pond St. route 126. Come down and see his new store.

George Rice, Ashland, MA.
GEORGE.GIB@VERIZON.NET



DISCOUNT LIPO BATTERIES

My name is Mike Kommel, and as the owner of Common Sense RC, a manufacturer of Lithium Polymer batteries, I want to extend a special offer to CRRC. A special code provided to your club president guarantees a 10% discount on all of your group's orders from www.CommonSenseRC.com.

For the first five of your members to sign up and make a purchase, we're going to offer an additional 5% off their first purchase and free shipping to anywhere in the Continental United States. Additionally, we're offering you and your group a bonus incentive. Once your group's total sales pass \$1,000, we'll send your club a \$100 Gift Certificate good for any product in our online store to put towards your club or organization. A perfect raffle prize!

If you have any questions, feel free to give us a call with any questions, Toll Free at (877) 709-3835.

Happy Flying! Mike Kommel

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
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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]

Alex of Alex's RC in Belmont also has keys. You have to show him a club badge to get the key. If neither of these pan out then they should be available at the next club meeting.

MEMBERSHIP

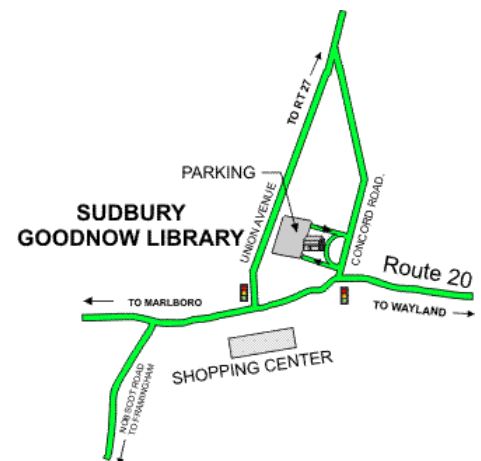
Here are the updated CRRC membership figures for 2006. The table summarizes the membership status from 1999 through current month, 2006.

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	88	6	94

-John Nilsson

MARCH DIRECTORS MEETING

The next directors meeting will be, Tuesday, March 21st at 7:30 PM, at the Sudbury Goodnow Library. All club members are invited to attend.



KEY INSTRUCTIONS

New Keys are available! The best way to get a Key to Bill Martin Field in Medfield is to email Jean-Pierre Riu or Ken Antonellis. They will send out instructions as soon as they hear from you. Ken Antonellis is the keymaster. Try kxa@verizon.net.



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

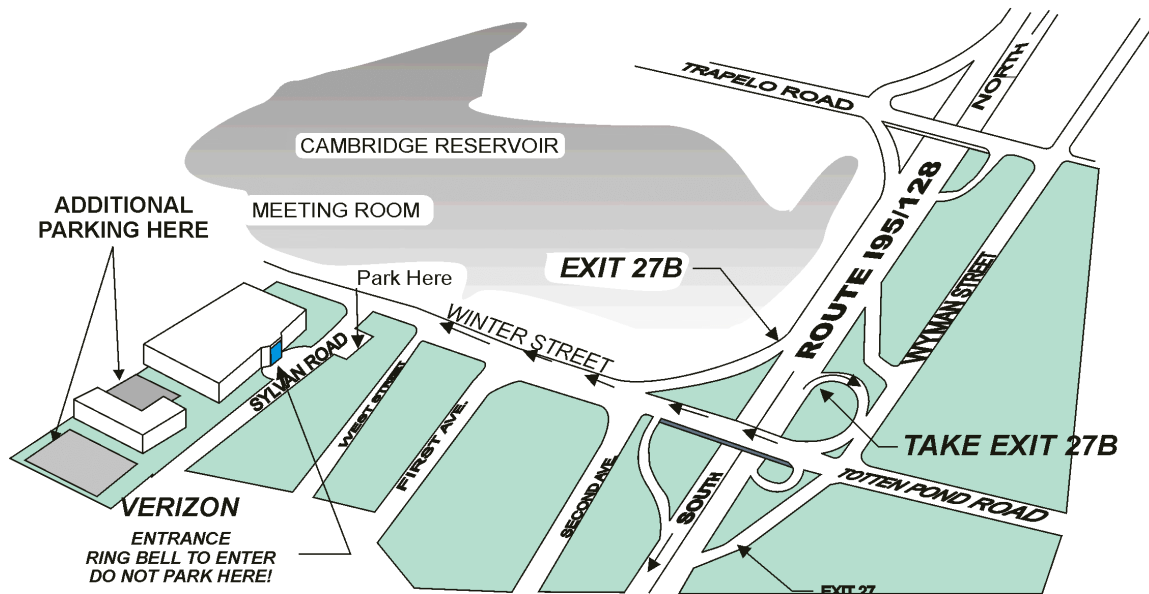
☐ I DO NOT want my address to
appear in the club phone book

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. Look for the Newsletter announcement one week before the meeting.

New Element for the Charts

A major research institution has recently announced the discovery of the heaviest element yet known to science. This new element has been tentatively named "Administratium." Administratium has 1 neutron, 12 assistant neutrons, 75 deputy neutrons, and 111 assistant deputy neutrons, giving it an atomic mass of 312. A force called morons, who are surrounded by vast quantities of lepton-like particles called peons, holds these 312 particles together. Since Administratium has no electrons, it is inert. However, it can be detected as it impedes every reaction with which it comes into contact. A minute amount of Administratium causes one reaction to take over four days to complete when it would normally take less than a second. Administratium has a normal half-life of three years; it does not decay, but instead undergoes reorganization. In fact, Administratium's mass will actually increase over time, since each reorganization causes some morons to become neutrons, forming isodopes. This characteristic of moron-promotion leads some scientists to speculate that Administratium is formed whenever morons reach a certain quantity in concentration. This hypothetical quantity is referred to as "Critical Morass."

You will know it when you see it...

Source Unknown.



David Spielman / Editor