CRRC Flight-Log

http://www.charlesriverrc.org

AMA Charter 339

February 2013

"Fast and Furious"



Combat!

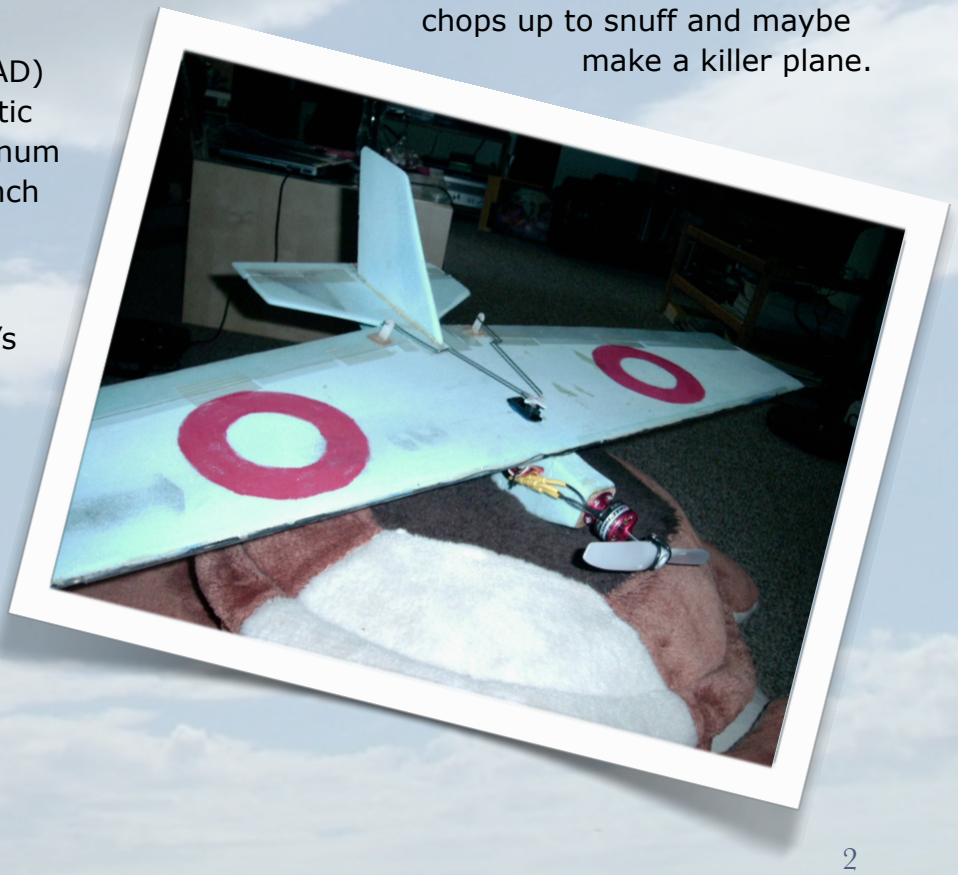
Since controlled model flight became possible (first by control lines and later with radio control), modelers have been devising ways to fly head to head combat. Control line combat was the original combat event in which two pilots fly in the same control line circle and try to cut crepe paper streamers attached to each plane. Control line combat is an internationally recognized (FAI Class F2D) model flying event.

Mainstream radio controlled combat in the US is sanctioned by the AMA and the Radio Control Combat Association (RCCA). This group's heritage is from the gas/fuel RC tradition and they mostly fly full-sized glow engine models (0.15 – 0.30 cubic inch sizes) although electric models are also allowed. These groups fly formal streamer combat contests. The planes are in the 2- 5 lb weight and 36" – 60" wingspan range. The smallest class, the Gnat, specifies a "simple plastic airplane design" (SPAD) made of chloroplast corrugated plastic flying surfaces attached to an aluminum channel fuselage and a 0.15 cubic inch glow engine.

The development of the Zagi EPP foam wing slope gliders in the 1990's created another line in RC combat development. With these simple planes that could easily survive most crashes, it was not long before slope glider pilots tried to actively knock each other out of the sky, creating the "full contact" (no streamers) style of combat. With the addition for electric power systems to these aircraft, full contact combat is also possible for powered models as well.

Various local clubs have developed their own variations on the combat competitions including one design flat foam contests, profile World War Two fighters, and smaller park flyer combat events.

Last summer Brian Rickman of CRRC proposed having a CRRC club park flyer streamer combat event. The design rules were made very inclusive in the hopes that participants could repurpose existing planes or come up with novel designs. The only rules were that the airplane be electric-powered and fly on a two cell LiPo battery with less than 1000 milliampere-hour capacity. The first event was held last October and was a lot of fun even though we had some rain and only 3 participants. We are planning for another contest next October so this is a chance to get your fighter ace chops up to snuff and maybe make a killer plane.




Fast and Furious Firewall Style Motor

What It Is

Park flyer streamer combat. Pilots all launch their planes together and for 5 minutes per round try to cut the crepe paper streamer on opposing pilot's planes.

What You Need to Fly Combat

A plane that you're willing to risk crashing. Although in streamer combat the objective is to cut streamers and not hit other models, mid-air collisions and other crashes are not uncommon. The ideal combat plane is crash resistant, cheap, easy to build and easy to fix, and capable of really short radius turns. The rules we set are to ensure that all the planes fly at similar speeds.

1. While planes designed specifically for combat are available, other designs (such as flat EPP 3D planes, small foam wings or park jets) could also be used.

2. Moderate pilot skill. If you can do turns and loops and keep from hitting the ground you're good enough. You will be a better pilot after the contest.

Why Do It:

Great for building pilot skill

Lots of Fun

Plane Tips

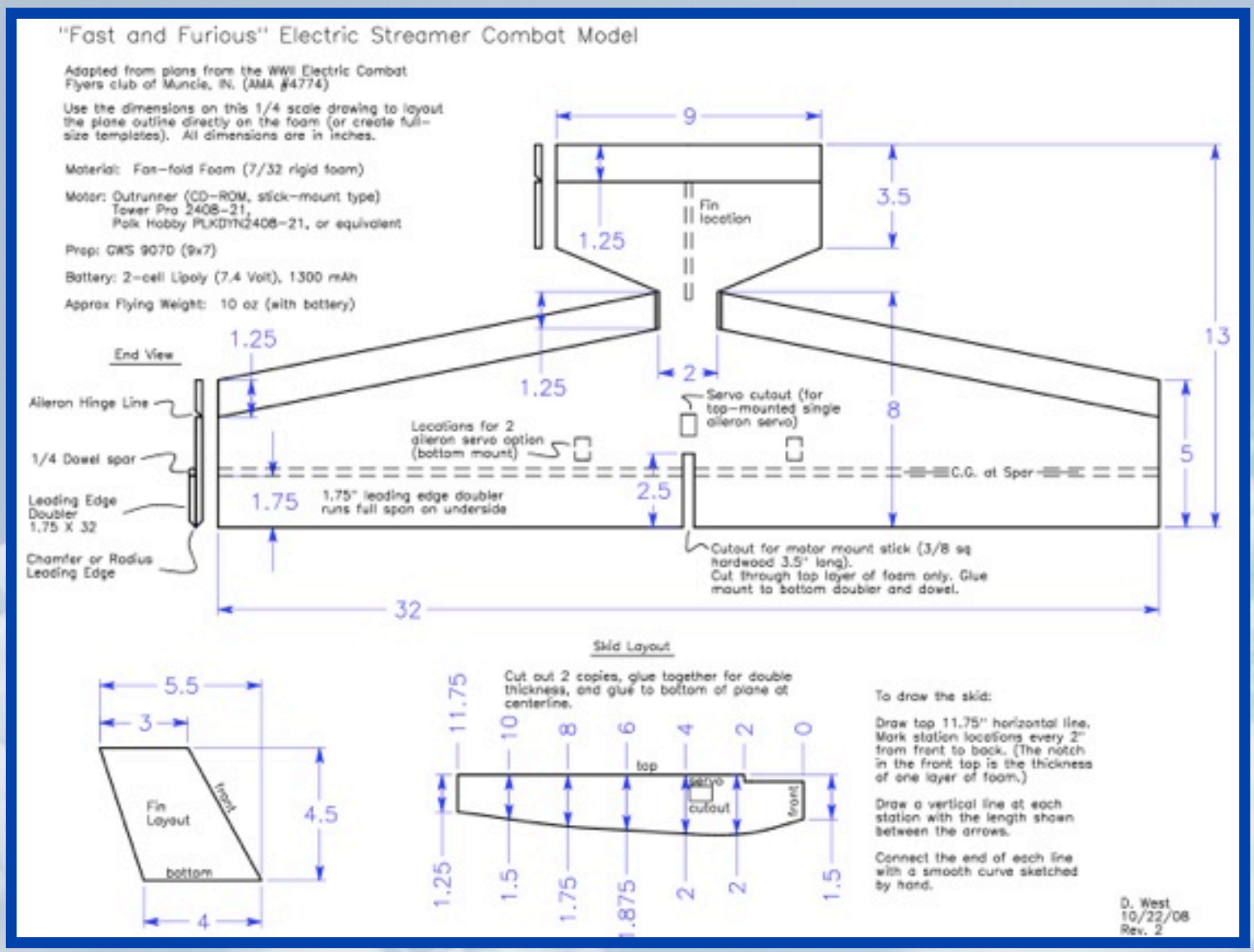
If you want to build a plane, this is a good one:

http://www.rcgroups.com/forums/showthread.php?t=1061750

The "Fast and Furious' design meets the requirements for park flyer combat. It's a simple flat foam design that's easy and cheap to build. Since it's made of harder foam (compared to EPP), it will break if crashed, but it's easy to repair if broken. Also since it's small and light (10 oz), it can survive moderate impacts. It flies great and turns quickly. I have posted original Fast and Furious plans and my version on the CRRC yahoo groups website along with some building tips.

Materials:

¼" fan fold foam (available from Lowes) or 6mm Depron
Carbon rod spar
Two micro servos
15 Amp electronic speed control
1600 KV electric motor
8x3 prop & prop saver
Glue
Ply wood or wood stick for mounting motor and associated hardware
800 – 1000 MAH 2Cell (2S) LiPo Battery (7.4Volts)
Tape for hinges and reinforcements
Wire pushrods and control horns
4 channel receiver



Below is a partial list of links that lead to more information about "Combat Models"

http://groups.yahoo.com/group/crrc/files/Fast%20and%20Furious%20Combat%20Plane/

http://www.rcgroups.com/forums/showpost.php?p=13073741&postcount=65

http://www.wattflyer.com/forums/showthread.php?p=889683

http://www.wattflyer.com/forums/showthread.php?t=47556

http://www.wattflyer.com/forums/showthread.php?t=65167

January Club Meeting



General Meeting Minutes for January 16, 2013

Business Meeting:
Dave Spielman opened the business meeting at 7:30 PM at the Goodnow Library on January 16.

Meeting minutes from last month's meeting were approved as written in the January newsletter. No treasurer's report was available at this month's meeting.

Field Reports:
Medfield field had some mud due to cars driving in the area. Davis field has no issues.

New Business:
Scott from the Millis club would like to member from each club would attend each others club instate an ambassador program where designated meetings to increase cooperation. The proposal was met with general approval.
The meeting was closed at 8:00 PM
.

New Members / Visitors:
Dominik Faissler is new member at his first meeting. Dominik flew completion slope and thermal gliders in Europe and wants to get back into glider flying after being out of modeling for several years.

Raffle



First Prize: Jim Otis chose a foam C-47 kit.

Third Prize: Dick Roy chose an Uberlights micro model with interchangeable wings allowing several models to share the same power system.



Second Prize: John Weigel chose a PT-17 biplane kit.

Show and Tell





Fitz Bien showed a Thomas Morse Scout made from a Guillow kit originally intended as a rubber-powered model. The model features operating scale aileron linkages that match the full scale aircraft configuration.

Dick Roy showed two models. The first was a 48” flying wing made from flat white foam. It was a replacement for a similar model that was lost to the wind during the January 1 fun fly. The second was a partially completed BMJR Duelist balsa kit (shown in the background). The model has a 35 inch wingspan with twin electric motors (30 watts per side).





Dan Sullivan showed his version of a "Fast and Furious" combat plane in hopes of generating interest in the October streamer combat event. The model is made from blue ¼ inch flat foam and is fun to fly. Although this style plane is the baseline model for the streamer combat, he stressed that other types of models such as RTF park flyers, foam aerobatic planes etc. could be entered in the contest if desired.





Mike Kolk showed off a Mini IFO fabric and carbon rod slow / indoor flyer sold by Wild RC (IFO – Indoor Flying Object). Despite its fragile appearance, the plane is quite rugged and capable of flying in a small area. He currently has Dymond 7 oz-inch servos installed but feels they are a bit weak for the controls and he may convert back to HS-55 servos for better control.

Tony Davids showed a Traxis QR1 micro quadcopter. Although only about 6 inches long it has a full gyro stabilized control system. He was able to demonstrate its capabilities by flying it around the room.







Guest Speaker

Guest Speaker Hunter Chaney from the Collings Foundation gave a briefing on the foundations activities. The Collings Foundation is based in Stow, Massachusetts and specializes in restoring and flying historic military aircraft. They have the only B-24 bomber in the world (out of 18,000 built) that is in flying condition. Other notable aircraft that they operate are a B-17 bomber, F-4 Phantom fighter jet and a two place predecessor to the P-51 Mustang.

The Collings Foundation has an active air show and flying program and takes paying passengers up for rides in its aircraft.

Meeting Minutes submitted by Dan Sullivan

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Treasurers Report

January Activity Report

Starting Balances	
Checking	$7,396.22
Cash Box	$25.00
PayPal Account	$93.58
CD Accounts	$6,902.80
Total Starting Balance	$14,417.60
Income CDs	
Interest	$2.07
Total Interest	$2.07
Income Checking	
Membership	$30.00
Raffle	$47.00
Auction	
Total Income	$77.00
PayPal Activity	
Membership	$190.00
Less PayPal Fee	$5.55
Total PayPal Activity	$184.45
Expenses Checking	
Town of Sudbury	$600.00
AMA Club Charter & Ins.	$150.00
Millis Model Aeronautics	$835.00
Total Checking Expense	$1,585.00
Ending Balances	
Checking	$5,888.22
Cash Box	$25.00
PayPal Account	$278.03
CD Accounts	$6,904.87
Grand Total	$13096.12

David Marshall, CRRC Treasurer

Calendar

February 17, 2013
Lazy Loopers Auction
See page 13

February 20, 2013
General Meeting

March 20, 2013
General Meeting

March 30, 2013
Davis Field Clean-Up

April 6, 2013
Bill Martin Field Clean-Up

April 17, 2013
General Meeting

May 15, 2013
General Meeting

May ?, ? 2013
Spring Float Fly

June 19, 2013
General Meeting at Davis

July 4, 2013
CRRC Flying Demo

July 6 & 7, 2013
Hand Launch Classic

July 17, 2013
General Meeting at Davis

July 27, 2013
RES & 2 Meter Glider Contest

August 10 & 11, 2013
Soar in ESL Contest at Davis

August 21, 2013
General Meeting at Davis

August 31, 2013
ALES Contest at Davis

General Information

Indoor Flying at the Auburn SportsPlex

Every Friday from 10A to 2P
$10 per pilot, spectators free

Keys to the Bill Martin Field

To get a key for Bill Martin Field in Medfield please email Ken Antonellis at kxa@verizon.net. Ken is the key-master. The key for the 2012 season is key #27. Ken may have keys at the meeting. A $5 deposit is required the first time you receive a key.

New Wings

No new Wings this month.

Flying Sites

Go to the CRRC Website and select the Flying Sites tab to see the various sites. The site page will give current weather and site information.

Building and Flight Instructors

To start your your instruction please call the Chief Instructor, Dick Williamson. You will be match with one of the Instructors. All Instructors are qualified AMA pilots and willing to give assistance to fellow club members.

Types of instruction - B = Building, G = Glider, E = Electric, F = Fuel, H = Helicopter

Dick Willamson - B, G, E
978-618-5475 - Sudbury

Fritz Bien - B,G, E
978-369-1720 - Concord

Tom Bauer - B,G, E
781-235-7344 - Wellesley

Brian Rickman - B, E
774-249-2494 - Marlborough

Derick Veliz - B, E
978-337-7867 - Acton

John Weigel - B
508-655-2138 - Natick

Richard Gammon - B, G, E, F
508-835-2049 - West Boylston

Ken Antonellis - G, E, F
508-653-8369 - Natick

Bruce Schneider - G, E
978-460-0305 - Hudson

Lincoln Ross - G, E
978-800-0608 - Maynard

John Nilsson - G
978-368-7136 - Clinton

Dave Walter - G
978-562-5400 - Hudson

Jon Leehey - F
508-358-5721 - Wayland

Tony Davids - H
978-568-9598 - Stow

Tree Climbers

LloydKeyes(Wayland)
508-358-9197 or
508-341-0110

Michael Lynch
(Wayland/Sudbury)

Paul Harrington (Medfield)
508-376-2573

Monkey Man (Marlboro)
508-215-4290

Scott (Sudbury)
508-203-3845

Tony Morais
A1 Tree Services
(Framingham)
508-626-0088 or
800-657-7788

Stephen Canessa
The Tree Guy
978-460-1000

Hartney Greymont (Medfield)
Sean Comer
781-444-1227
thescomer@gmail.com

Jason (Davis Field)
978-460-0477

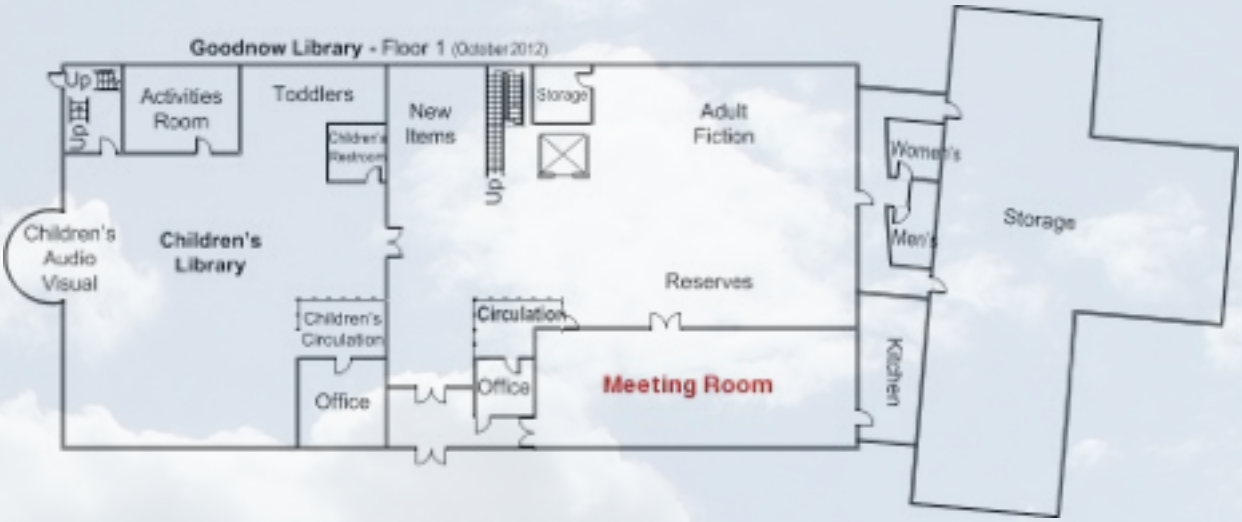
Editors note: If you know of any tree climbers or tree services please send contact information to the Newsletter Editor

January Club Meeting

Guests are Welcome

Wednesday February 20, 2013
7:30PM at the Goodnow Library
21 Concord Road
Sudbury, MA 01776

Parking



Guest Speakers

Tony Davids and Dick Williamson
will give a presentation on quad copters







President's Message

The news is in, Punxsutawney Phil did not see his shadow. Yeah!!! Early spring, I'll have my batteries charged and ready as soon as the weather breaks.

It seems like I just put my batteries is storage a few weeks ago. All the Lithium polymer batteries are at half charge and the Nickel metal hydrides are discharged. A cycle or two will ensure they work properly and off I can go.

For those of you new to battery maintenance, you'll want to ensure your receiver packs are working well. Cycle them with a full charge and discharge. Make sure you are close to the pack's rated capacity. My preferred charge method for the higher capacity receiver packs is a slow 12-hour charge at 1/10th C rate. Some of the new packs are a bit finicky and give a false peak before fully charged. Guess how I found out. A two-minute flight resulted in a full discharge and a scary landing. A 3.3-meter sailplane landing with partial aileron function careening toward earth like a missile was a little nerve wracking.

In other news, Scott Annis of the Millis Model Aircraft club gave us an open invitation to attend their general meetings. Tom Bauer and I took them up on the offer and spent an enjoyable evening at the America Legion hall in Millis. The meeting was a lot like our general meeting with about 20 members in attendance. There was discussion of the field conditions, club finances and a raffle. We were welcomed and treated like part of the gang.

Some items came up that were of interest to us. The Bill Martin Field maintenance is being planned for **April 20th**. New pilot station vinyl fencing is going in, a new roof for the shed is planned and ruts in the road are being filled. We need your help to make these repairs go quickly. Please plan come on down and join us for a little work followed by flying.

March 26th is key night. The gate locks will be changed to key #15 or #7, whichever is a full set. Our key master, Ken Antonellis will coordinate the key exchange.

Our contests are a big part of the clubs event calendar. Three upcoming events require a Contest Director for planning and support. Please consider volunteering to be a CD for the Hand launch or the RES or the ALES contests. There is a benefit to being a CD beyond the satisfaction of leading a successful contest, and that is a free membership. Contact Dick Williamson and let him know which event you want to own.

Fly safely,
David Spielman
CRRC President



Lazy Loopers Flying Club

AMA #1389

24TH ANNUAL WINTER AUCTION

Sunday February 17, 2013

Wrentham Developmental Center-Auditorium Greeley Street Wrentham, Massachusetts 02093

Doors open for set up at 1:00PM. Auction begins at 1:30PM.

OPEN TO ALL. GENERAL PUBLIC WELCOME!

$2.00 General Admission. 10% Seller's Fee.

- Planes, Kits, Batteries, Accessories & other items!
- Food, Beverages and Baked Goods Available.
- 50/50 Raffle!
- RC items raffle featuring cool items donated by local Hobby Shops.

Browse, Buy, or Sell! Free Parking

Directions from Wrentham Center (Rt. 1A and Rt. 140)

Follow Rt. 140 north and proceed 4/10th of a mile, then bear right onto Shear Street. Follow Shear Street for 7/10th of a mile (Anvil Pub will be on left), and turn right onto Smith Avenue. Follow Smith Ave for about 100 feet and take first right onto Greeley Street. The auditorium is the 2nd building on the left (look for ramp).

Use your smart phone to scan this image and download a copy of this flyer from our website!

Visit www.lazyloopers.com for more information

2013 MEMBERSHIP APPLICATION

Name
Street
Town State Zip
Telephone
E-mail

IMPORTANT: You must be an AMA member in order to receive your CRRC membership card.
AMA No.
Birth Date (AMA req'd)

To receive membership card and field pass, bring this application to a club meeting, or mail to the membership secretary (address below).

Ray Harlan
Membership Secretary CRRC
15 Happy Hollow Road Wayland, MA 01778
508-358-4013
Email: membership@charlesriverrc.org

Please make check payable to: **Charles River RC**

You can pay by check or use PayPal.
(PayPal to membership@charlesriverrc.org)

SAVE $5 - EARLY BIRD DUES RATES ARE LISTED

	MEMBERSHIP CATAGORY	On or before Mar 1, 2012	After Mar 1, 2012
☐	OPEN Member	$40.00	$45.00
☐	JUNIOR member, (Under 19 before Jul. 1)	$10.00	$10.00
☐	SENIOR member, (If age 60 before Jul. 1)	$30.00	$35.00
☐	SENIOR member, (If age 75 before Jul. 1)	Free if AMA member	Free if AMA member
☐	Full time STUDENT	$20.00	$25.00
☐	Family member additional to OPEN membership	$20.00	$25.00

Please chose from the options below:

☐ DO NOT include my personal contact information in the club phone book

Help reduce operating costs by downloading the newsletter from the CRRC website.

☐ I DO NOT have access to a computer or the Internet - Please send me the Newsletter via US Mail.