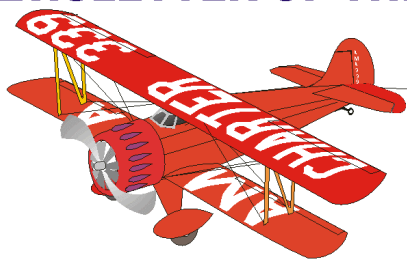


# NEWSLETTER OF THE CHARLES RIVER RADIO CONTROLLERS, INC



## CRRRC FLIGHT-LOG

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

**AMA CHARTER 339**

**SEPTEMBER 2005**

**VOLUME 42 NUMBER 9**

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### GENERAL MEETING

**Wednesday**  
**September 21<sup>st</sup>**  
**7: 30 PM**

### Guest Speaker

MIT graduate student Luca Bertuccelli will provide an overview, summary, and future goals of an autonomous aircraft research project currently completing its third year of testing.

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### SEPTEMBER RAFFLE

#### First Prize

*Electra powered sailplane*



Features 78.25-inch wingspan for exceptional glide capability, and includes a motor. Just add your preferred 3-channel radio, an ESC and a battery, and you'll be ready to hit the slopes!

#### Second Prize

*Gallon of fuel*



**and**

**WON**  
**a**  
**COOL TOOL**  
**for**  
**Show-n-Tell**

## President's Letter



Greetings from Japan... I will be back in the US when you read this, but I am currently in Tokyo! As I wrote last month, my favorite time of the year is summer and being here with no flying fields with-in a 2 hours drive isn't ideal... It is so nice to live 2.5 miles from Davis field.

So... what happened in August??? I think it was a good month for flying. I had a great time at my first unlimited contest. To say the least it was in varying conditions! I didn't feel as bad missing some of my spot landings when some much more experienced fliers had to take some pretty long walks. Special thanks to Anker Berg-Sonne and Dave Walter for CD'ing the event and to all the volunteers for making it an enjoyable for all (OK, a couple of you who are still looking for your plane may not totally agree...)

As we head for the fall, we will be looking for volunteers to run our club for the coming year. I can tell you that this has been an enjoyable experience for me. I am glad I could give a little back to a group that has introduced me to this great hobby. If any of you have been thinking about an office for the coming year please let one of the current board members know.

Safe flying and many happy landings,

*-Andrew Johnsen*

## Treasurers Report

### TREASURER'S REPORT

Report Date 8/31/2005

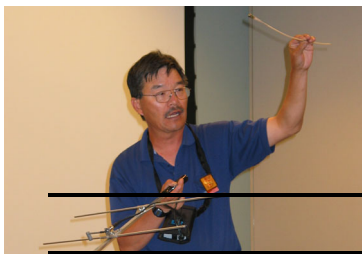
|                                                    |                    |
|----------------------------------------------------|--------------------|
| <b>Starting Balance 07/29/05</b>                   |                    |
| Checking                                           | \$4,501.03         |
| Savings                                            | \$930.27           |
| Cash Box                                           | \$25.00            |
| PayPal Acct                                        | \$332.29           |
| CD Accounts                                        | \$4,528.94         |
| <b>Total Starting</b>                              | <b>\$10,317.53</b> |
| <b>Income</b>                                      |                    |
| Dues, July (not recorded in 07/31/05 statement)    | \$200.00           |
| Raffle income, July                                | \$50.00            |
| Dues, August                                       | \$95.00            |
| Interest: Savings                                  | \$0.47             |
| <b>Total Income</b>                                | <b>\$345.47</b>    |
| <b>Expenses</b>                                    |                    |
| Ken Antonellis, RES '05 food expense, #1440        | \$85.80            |
| Mike Simmons, Tx for raffle prize, #1441           | \$100.00           |
| Dick Williamson, Davis field Fall permits, #1442   | \$200.00           |
| Tracy Clark, Newsletter, RES & Soar-in food, #1443 | \$544.09           |
| Paul Bell, Soar-in ESL sanction fee, #1444         | \$122.00           |
| Fritz Bien, Walston Tx & antenna, #1445            | \$717.00           |
| John Nilsson, Soar-in '05 food expense, # 1446     | \$118.88           |
| Account fee -Savings                               | \$5.00             |
| <b>Total Expenses</b>                              | <b>\$1,892.77</b>  |
| <b>Ending Balances</b>                             |                    |
| Checking                                           | \$2,958.26         |
| Savings                                            | \$925.74           |
| Cash Box                                           | \$25.00            |
| PayPal Acct                                        | \$365.97           |
| CD Accounts                                        | \$4,528.94         |
| <b>Grand Total Ending 08/31/05</b>                 | <b>\$8,803.91</b>  |

*-Scott Anderson*

## INDOOR FLYING

The indoor site we've used for the past years may not be available to us with their new management. We need help locating a suitable indoor venue for this coming year. Please search around. We need all the help we can get if we want to do some indoor flying this winter.

*-Bruce Schneider*



## AUGUST GENERAL MEETING NOTES

### Secretary's Report August 2005 General Meeting

Andrew Johnsen opened the meeting at 7:54 p.m.

The Secretary's Report and the Treasurer's Report were both approved as written in the July 2005 newsletter.

#### Field Reports:

Davis Field – is in great shape. Lights for football are up until November. Four football games are scheduled for the fall.

Medfield – Field and access road are in good condition. Grass recently cut.

#### Old Business:

- Membership:  
John Nilsson Reports we have:
  - 141 renew members
  - 21 new members
  - 162 total members
- Dick Williamson volunteered to attend the next BOD meeting at the Sudbury Library.
- The RES and the SOAR IN were both successful.
- There was a nice article in the Sudbury Town Crier about the RES Contest.

#### New Business:

- There is a proposal to have the monthly summer

meetings outdoors. We would be alternating locations between Davis and Medfield.

- There was an e-mail about the fall auction site. The VFW hall in Natick will probably stay as the chosen site. CRRC will try to reserve November 13 as the date.
- In an effort to bring in new junior members, John Nilsson considered reducing the CRRC junior membership fee to \$1.00.
- Dick Williamson reports on the Woodsom Farm Festival. September 17 is the target date. Northeast R/C is going to hold the event.
- Fritz Bien presented CRRC club a unique airplane retrieval system called the Walston Retrieval System. A motion to pay for it was voted on and approved. The cost of the receiver is \$599.00 and the transmitter is \$140.00. The transmitter would have to be purchased by the individual members.

#### Raffle:

First prize went to Ken Vincent – Hitec Laser 4, channel radio with servos, receiver and batteries. Second prize went to Joel Foner – Free Fly electric airplane from Harbor Freight. Third prize went to Ken Antonellis – a gallon of fuel.

#### New Pilots

Norm Tripp- Olympic II/Electric version – Congratulations!

#### Guests

No guests.

#### Show & Tell

- Joel Soukoup – A Wing Warrior Zipper 34 inch wingspan, a Zagi look a like. EPP Spad.
- Al Marshall – 1978 Aquilla.
- Jeremy Harkin – A Hell Riser, Hobby Lobby foam Bi-plane, with HS-55 servos.
- Dave Spielman – Hanson Hobbies Plane Finder - \$10.00.
- Ken Vincent – PJS 900 brushless from Hobby Lobby, with floats, A25 speed controller.

#### Entertainment of the Night

Unfortunately, Ware Fuller had to cancel the showing of his BD5 plane. In lieu of this entertainment, Steve Young talked about his trip to Glenn Curtis Museum. Also Joel Foner talked about his glider ride during his trip to Elmira, New York

Meeting ended at 9:00 p.m.

**-Sally Tomburro and Jim Otis**

#### BOD Meeting

We established a \$1 youth rate following the AMA. Age is 19 and under. Rate change is effective for the 2006 year.

The Auction will be November 13<sup>th</sup>. Ken reserved the date at the VFW hall in Natick.

## WALSTON RECEIVER

I've been searching for hours. Where did it land? How am I going to find it in this swamp? These are some of the thoughts that you won't be having once you get your Walston transmitter.

At our last meeting we voted to refund Fritz Bien for a Walston 48 channel receiver and antenna he just purchased. This receiver will be available for use by calling or e-mailing Fritz. With up to a month of transmitter battery life, you have plenty of time to get the receiver and locate your plane.

With a single Walston transmitter, you can protect your entire collection of flying models from loss on the field. A tiny 2-cell transmitter will emit a signal over 2 miles on the ground and 20 in the air. If that isn't good enough, the 4-cell transmitter can be located up to 5 miles on the ground and 50 in the air.

The Walston transmitter and the receiver system with folding antenna have been used for years on free flight airplanes, model rockets and at soaring contests. It has been the best retrieval system on the market to date.

Several CRRC members have tried to duplicate its performance, but it hasn't been met. The only good answer after holding out for 5 years, was to buy the real McCoy.

Walston has a new website, which shows the systems and prices for transmitters to fit your airplanes. [www.walstonretrieval.com](http://www.walstonretrieval.com)

Fritz has been using the standard transmitter model (MODA 238) for the last 5 years. This transmitter sells at \$135 with \$11 shipping.



When buying the transmitter, be sure to mention that you are a CRRC member. Jim Walston is keeping track of our club channels to avoid duplications.

*-David Spielman*

## WOODSOM FARM

**Saturday, September 17, 2005.**

Once again this fall, CRRC flyers will be participating in the Woodsom Farm Festival in Amesbury, MA. This is a great opportunity for gas-power, electric-power and sailplane flyers to fly at the same field. The open area is huge. This is also a great opportunity to promote RC flying in front of a large festival audience.

There aren't many details yet on the 2005 Woodsom Farm Festival, but keep checking:

<http://www.woodsomfestival.com/>

*-Dick Williamson*

## DISTRICT 1 EVENT

**September 24 and 25**

The Southern New Hampshire Flying Eagles R/C Club is happy to announce that they will be organizing a model aviation information booth at the upcoming Aviation Heritage Festival in Nashua, NH. For event details see:

<http://www.dwc.edu/news/2005AHFpr.shtml>  
[1](#)

Our goal for the booth is to introduce aviation enthusiasts to the AMA and area Clubs. The activities at the booth are being coordinated by Norm Ellis, who can be reached by email: [nmxellis@yahoo.com](mailto:nmxellis@yahoo.com) or phone (603) 424 4271.

We'd like to make sure that all area clubs are represented. If you are interested in volunteering your time to have your club represented, please contact Norm. We are asking for volunteers to sign up for 2-hour slots to field questions and pass out information on area clubs.

Even if your club cannot have a representative on site, please contact Norm with whatever promotional material you have. The Aviation Heritage Festival is a big event and draws a wide audience.

*-David Beach*

E-Mail [webmaster@snhflyingeagles.org](mailto:webmaster@snhflyingeagles.org)

## THE GREAT PUMPKIN FLY-IN

After several requests to have an earlier contest, Brattleboro Flyers Club has set the date for the Great Pumpkin Fly. We will fly 5-6 rounds of Unlimited Thermal Duration with landing bonus. The contest will be held at The Dennis Bailey Memorial Field on **Saturday, October 1st**. This is the same field as last year (directions below). We will have a leisurely start with a pilots meeting at 10:00 and first round at 10:30. As usual we will have awards to 3rd place. Lunch will be included in the \$10.00 entrant fee. Start planning on it and get it on the calendar.

From New Hampshire (or Maine): Take Rt 101 or Rt 202 East to Rt 9 East to Vermont border. Take a right at the rotary onto Rt. 5 North for 1/4 mile. At the first light, turn right on Old Ferry Road for 1/4 mile. The field is on the right.

From Boston area: Take Rt. 2 or 90 (Mass Pike) West to I-91 North to Brattleboro Vt. (Exit 3) At the rotary, take a left onto Rt 5 North for 1/4 mile. At the first light turn right on Old Ferry Road for 1/4 mile. The field is on the right.

From Hartford/Springfield and points south: Take interstate I-91 North to Brattleboro Vt. (Exit 3) At the rotary, take a left onto Rt 5 North for 1/4 mile. At the first light turn right on Old Ferry Road for 1/4 mile. The field is on the right.

For more info call Bob Rondeau 802-257-7860  
E-mail [bobrondo@adelphia.net](mailto:bobrondo@adelphia.net)

## AMA DISTRICT 1 FUN FLY AND AIR SHOW

District 1 is sponsoring a 3-day event: September 16-18 at the Gardner Airport. There will be RV camping, food, and vendors.

Gardner Airport sports a 2,700' runway. This event will include night flying. Information for this event is limited. For more information, go to the District 1 report in the August issue of Model Aviation.

Edward Faria CD PH: 508-678-6404 email:  
[provair@aol.com](mailto:provair@aol.com). Sponsor: WACHUSETT  
BARNSTORMERS

## SAVE THE DATE SUNDAY NOV 13<sup>TH</sup>

The CRRC club auction will be held on November 13th. Ken Antonellis reserved the date at the VFW hall in Natick. This year we will be getting a little help with the refreshments. A bartender will be hired to man a cash bar. Benefits from the bar will support the VFW hall.



This year will be a great time to sell all those items that have been sitting around without being touched for a year or more.

Volunteers for the auction will be appreciated. A new PA system will be used and set up will be run slightly differently. See you there!

*-David Spielman*

## CRRC ELECTRIC FUN FLY, OCT 1ST

The CRRC Electric Fun Fly will be held October 1<sup>st</sup> at the Bill Martin Field in Medfield. Tom Bauer is back from his summer of fun and ready to CD the event.

Time: 10:00 to 2:00. Refreshments and lunch will be available. A bomb drop contest is planned with a prize for the winner. If you expect to attend, please contact Tom at [tbauer@wellesley.edu](mailto:tbauer@wellesley.edu) so he can plan how much lunch to bring.

*Come join the fun!*



## CRRC 2005 SOAR-IN



The Charles River Radio Controllers conducted their 32nd Annual Soar-In on August 13 and 14 at Davis Field in Sudbury, MA. Traditionally, the Soar-In is accompanied by extreme heat, fierce wind, and/or drenching rain. We almost got the triple.

### *Saturday: Dave Walter, CD*

The weather forecasters predicted W-SW winds 10-15 mph and temps in the 90's. The wind ended up more NW, but the temps were definitely in the 90's.

Thirty-five pilots arrived, with a nice balance of Experts to Sportsmen, 15 and 17 respectively. Pilots were divided into 4 flight groups, and each flight group was allotted a 10-minute window during which the pilot must launch. The score was the sum of the flight time in seconds and the landing score (25 foot graduated tape). Scores were not normalized by flight groups, so lift cycles became an important factor.



The CD called for 7 minutes in Round 1. After noting that many got their time, he called for 8 minutes in Round 2, expecting to continue increasing the task each round up to 10 minutes. But the NW wind kicked in early and flight times began to fall off a cliff. With the challenging air, the task was kept at 8 minutes.

Rounds 6 and 7, the final two rounds, were particularly difficult, with fewer than 5 maxes recorded in each round. Many experienced pilots had to take the "walk of shame" into the tall grass to retrieve their planes. When the wind is from the NW, it pushes down the gentle slope on the east end of the field, which means you are coming up hill, into the wind when returning from a downwind flight. At the end of Round 6, Chris Schuck was in the lead and needed just one more good

flight to secure first place. Sadly, Chris ventured too far downwind in the last round and was unable to return to the field. His Mantis was last seen descending beyond the far tree line, and still has not been found.



At the end of the day, Steve Pasierb proved to be the most consistent pilot. He managed to max his last two flights in tough air, and that performance earned him 1st place. Mark Drela took 2nd and Dave Walter 3rd. Tom Kiesling struggled to 4th place after suffering through a couple rounds of horrid air. He muttered something to the CD about "man-on-man" and "normalized scoring", a suggestion, which the CDs hope to follow in next year's competition. Note that even with a zero round, Chris Shuck managed to pull-in 5th place.



The king of the Sportsmen proved to be Miner Crary; his score would have put him in 7th place as an Expert. Second and third was a tie between Rich Watson and Jim Otis. I understand Jim graciously accepted the 3rd place trophy, perhaps in exchange for a beer.



### ***Sunday: Anker Berg-Sonne, CD***

Sunday morning saw the return of many pilots who had flown on Saturday, but seemed somewhat drained by the experience. While the temperature was expected to be lower Sunday, the humidity was nearly off the chart and most of us were a sweaty mess before the competition even began. Twenty-nine pilots signed up, 15 of them Experts. CD Anker called for the same format and tasks as the previous day. Light, variable wind meant there would be fewer off-field landings, but it also created some challenging downwind landing conditions. Up air was less powerful and harder to find on Sunday, but with the lower wind you could venture further down range without the fear of coming home against a strong wind.



At the end of the 6th round, we heard the echo of far-off thunder. With bright skies above us, the CD made the brave call to fly one more round. That last round was executed in record time; everyone sensed that the

clock we were trying to beat was wound up by Mother Nature, not the CD. In the end, Tom Kiesling returned to his natural position, first place. Dave Walter followed close behind in second, and Jeff Steifel hauled in third place. Robert Buxton was Top Dog in Sportsman class, with Rich Plummer and Dick Williamson nipping at his heels in 2nd and 3rd place. After hustling through the award ceremony, everyone packed up in a hurry and the field was completely cleared just as the rainstorm arrived.



As always, the success of a competition is closely linked to the quality of the helpers. Locals Warren Hopkins and Tomer Jackman kept the winches running smoothly while sitting all day in the blistering sun. Tracy Clark and Dave Spielman served a first class lunch each day. David Marshall ran the scoring with help from Les Gerhardt. Many other club members too numerous to mention helped with tents, tables, winch and retriever equipment, etc. Thanks to all for pitching in!



***- Dave Walter***

## PAUL SWANSON'S MOJO

The photos are of a Paul Swanson's Mojo, a 3D aerobatic airplane that, like the smaller OS25FX Fat Free Taco also put out by Swanson, features a composite tube running the full length of the fuselage from wing LE to the rudder post. This makes the fuselage quite stiff and strong, while eliminating the "achilles heel" breakage point at the wing TE that most profile aircraft suffer from.



My plane is powered by a Saito 72, 4 stroke and weighs about 4 1/2 lbs ready to fly. I flew maiden flights at Medfield on Labor Day along with Stefan Cohen, a young high school student who in just one year has gone from flying his first profile trainer to now, flying gas helicopters and 3D aerobatic machines of all sizes, quite an accomplishment.



The American Flag three-dimensional color scheme was adapted from a very detailed website listed below. The wing is first covered in white Ultracoat. Grey Monokote is ironed on to simulate the pleats and folds; then transparent blue and red Monokote are

used to create a stylized stars and stripes appearance. This was not that hard to do and quite striking in its final form, as I think you'd agree.

Here's the website info for my flag waver airplane:  
[www.swanyshouse.com](http://www.swanyshouse.com) -- the site for Paul Swaney's profile aircraft

[http://www.rcuniverse.com/forum/m\\_603331/anchors\\_603331/mpage\\_1/key\\_flag/anchor/tm.htm#603331](http://www.rcuniverse.com/forum/m_603331/anchors_603331/mpage_1/key_flag/anchor/tm.htm#603331) -. The detailed, "how to" for the flag decoration. I didn't use the Windex treatment, but instead carefully controlled my covering iron's temperature to apply the decoration.

**-Pete Young**

## HAND LAUNCH GLIDER

If you definitely want to stay below \$100, I recommend the Gambler+ DLG:

<http://www.wrightbrothersrc.com/>

For thermalling, this will fly circles around the other low-cost gliders. The website has some AVIs of it in action.

It has built-up construction, but reportedly it goes together very fast. A massive amount of additional info is here:

<http://www.rcgroups.com/forums/showthread.php?t=227780>

To keep weight down, use Ultracote-Lite.



**The Gambler in flight**

**-Mark Drela**

# 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 TOWN TELEPHONE

### POWER:

**Chief Instructor:**  
**Ruane Crummett**  
(Wayland 508-655-2234)

|                |           |              |
|----------------|-----------|--------------|
| 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 |

### 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 |

### 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    | Waltham   | 781-891-0332 |

### HELICOPTERS:

— None Available at present—

### 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]

in Belmont also has keys (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

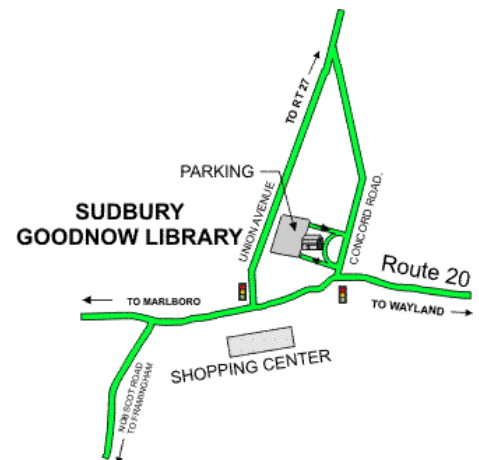
Here are the updated CRRC membership figures as of August 4<sup>th</sup>. The table summarizes the membership status, and compares recent years.

| 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 | 141      | 21          | 162         |

—John Nilsson

### AUGUST DIRECTORS MEETING

The next directors meeting will be, Tuesday, September 27<sup>th</sup> at 7:30 PM, at the Sudbury Goodnow Library. All club members are invited to attend.



### KEY INSTRUCTIONS

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](mailto:kxa@verizon.net). Alex of Alex's RC



## THE CHARLES RIVER RADIO CONTROLLERS, INC

### 2005 MEMBERSHIP APPLICATION

AMA Charter 339

**THIS FORM EXPIRES ON MARCH 1<sup>ST</sup> 2006!**

Name \_\_\_\_\_ AMA No. \_\_\_\_\_

Street \_\_\_\_\_ Birth Date (AMA req'd) \_\_\_\_\_

Town \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ Tel. ( ) \_\_\_\_\_ - \_\_\_\_\_

E-mail \_\_\_\_\_

#### I PREFER TO RECEIVE MY NEWSLETTER



**ELECTRONICALLY**



**Via the US 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](mailto:membership@charlesriverrc.org))

This completed form may be emailed to [membership@charlesriverrc.org](mailto:membership@charlesriverrc.org) following your paypal payment.

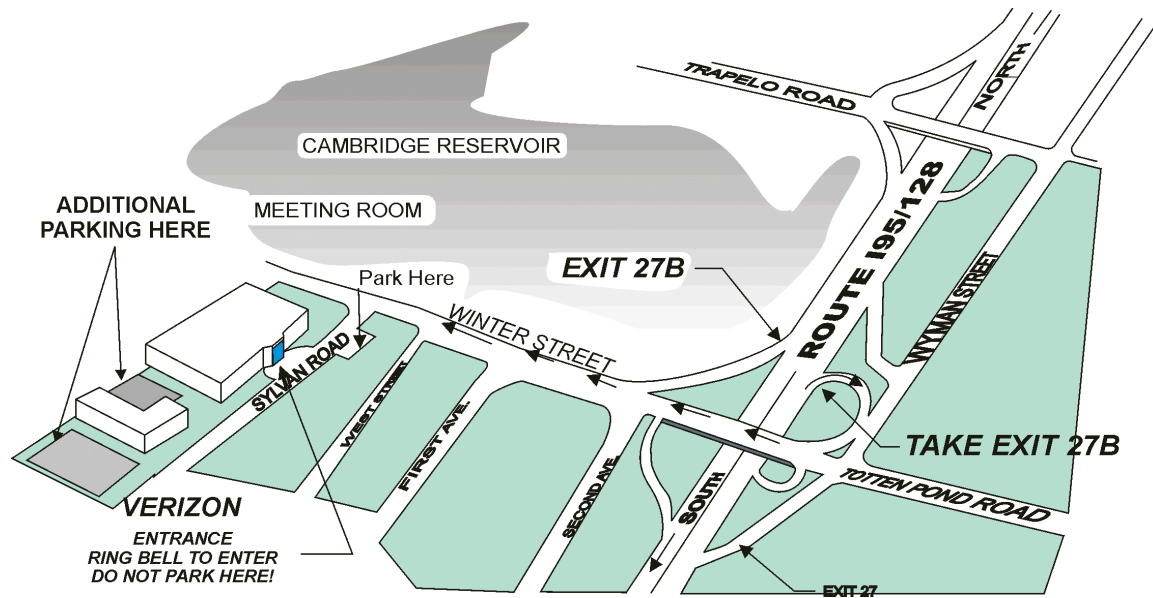
- ☐ I DO NOT want my address to appear in the club phone book

| MEMBERSHIP CATAGORY                                                  | Rates starting March 1 <sup>st</sup> |
|----------------------------------------------------------------------|--------------------------------------|
| <input type="checkbox"/> OPEN Member                                 | <b>\$40.00</b>                       |
| <input type="checkbox"/> JUNIOR member, (under 19 before 7-1)        | <b>\$25.00</b>                       |
| <input type="checkbox"/> SENIOR member, (if age 60 before 7-1)       | <b>\$30.00</b>                       |
| <input type="checkbox"/> SENIOR member, (if age 75 before 7-1)       | <b>Free if AMA member</b>            |
| <input type="checkbox"/> Full time STUDENT                           | <b>\$25.00</b>                       |
| <input type="checkbox"/> Family member additional to OPEN membership | <b>\$25.00</b>                       |

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

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



David Spielman /  
Editor

Chris Schuch brings his Mantis in for a graceful landing during a practice run at the ESL contest.