Newsletter of the Charles River Radio Controllers, Inc.

CRRC Flight-Log

http://www.charlesriverrc.org

AMA CHARTER 339 APRIL 2010 VOLUME 47 NUMBER 04

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GENERAL MEETING

Wednesday
Mar. 21th
7:00 PM

The Club Meeting for this month will be held at **Wellesley College, in the Science Center in, Room 277** (See back for directions). Bring a friend or just come alone.

GUEST SPEAKER
BOB RICE

Owner of the Hobby USA store located in Ashland, MA, Bob Rice will talk about the new products and the new AMA rules for park flyers and how they will affect new products.

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RAFFLE

First Prize

Great Planes
ElectriFly Ultra E-Box
Includes 2 Hobbico TorqMaster LC 12V 7Amp Batteries

Second Prize

Tony's Surprise

President's Letter

Davis Field Cleanup

I got to the field at about 9:45 AM, and people were already flying! It seems that a few people showed up way before everyone else and cleaned up the whole field. So, I thank those early birds for getting the job done so quickly. At least I brought some coffee and donuts….

Rain, Rain, …

I hope everyone made it through the all the rain without any flooding in your basements. Davis Field made it through the floods ok, but Bill Martin Field wasn't so lucky. In case you missed the pictures on our Yahoo groups, here is one from Paul Daigle.

Obviously, no work has started on the access road repairs or the new shelter.

Aerojunkies

Last month Tom Stammberger and I went to Burlington to fly with some of the Aerojunkies (http://www.aerojunkies.com) at a field at the corner of route 62 and Middlesex Turnpike. The Aerojunkies are a group of guys from various local clubs that fly electric park flyers wherever they find space.

The main field is composed of three baseball fields and is about 900 ft by 430 ft. Next to the main field is a small field about 500 ft by 130 ft.

There is also open space behind the field, but you would be flying behind the flight line. On that particular Saturday, the winds were quite strong.

The field is great for flying small electrics with small wheels. Tom had his old faithful, and several people had electric gliders. Even with the winds, Tom and I had a great time with the Aerojunkies.

Aerojunkies: Don and Matt

April Meeting Location
Don't forget that our meeting for April will be at Wellesley College at 7:30. After April's meeting, we will be back to the Goodnow Library in Sudbury for May.

Next Event…
Our next event will be the CRRC Park Flyer Challenge on the 25th at Davis Field (Weather permitting). It sounds more like an airplane torture test, but it should be fun!

Please fly safely, and I'll see you at the field (the dry one)!

- John Eppling
CRRC President

Treasurer's Reports

Report Date 04/02/2010

Starting Balance 03/01/10	
Checking	$7,400.63
Cash Box	$25.00
PayPal Acct	$0.00
CD Accounts	$6,806.27
Total Starting	**$14,231.90**
Income - CDs	
Interest	$5.50
Income - Checking	
Raffle	$102.00
Dues	$250.00
Total Income	**$357.50**
Expenses - Checking	
Raffle expenses Feb & March #1822	$163.83
Float Fly #1823	$50.00
AMA sanction Fees #1824	$150.00
Medfield keys #1825	$88.00
AMA sanction fees #1826	$120.00
Total Expenses	**$571.83**
Ending Balances	
Checking	$7,180.80
Cash Box	$25.00
PayPal Acct	$0.00
CD Accounts	$6,811.77
Grand Total Ending 03/31/10	**$14,017.57**

- Richard Roy
Treasurer

UPCOMING CRRC EVENTS

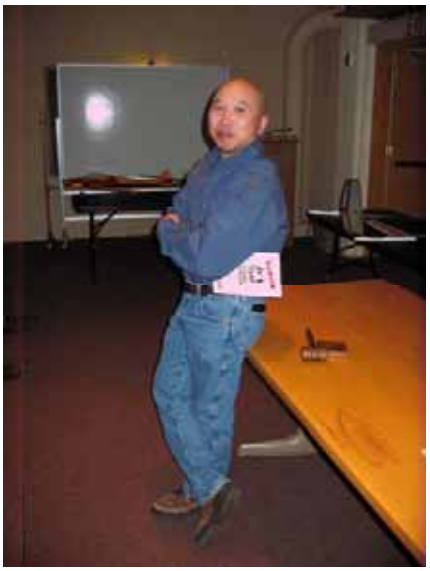
April 21, 2010
CRRC – GENEAL CLUB MEETING
7:00p Wellesley College, Wellesley, MA

April 25, 2010
CRRC 2010 Electric Parkflyer Challenge (Weather permitting)
Noon – 5:00p Davis Field, Sudbury, MA

April 27, 2010
CRRC – BOD MEETING
7:30p Goodnow Library, Sudbury, MA

General Meeting Minutes for March 17, 2010.

Business Meeting.
President John Eppling called the meeting to order at 7:43 PM, at the Wellesley College Science Center, Wellesley, MA. Thanks to Wellesley College and our host Tom Bauer for letting us use their facility. The April meeting will also be held at the Science Center. We will return to Sudbury in May.



The treasurer's report and secretary's meeting minutes were approved as written in the March newsletter.

Field Reports.
The Charles River is cresting from the recent rain, and the road leading to Bill Martin Field is expected to be under a couple of feet of water. Dick Roy was flying at Davis Field today, and reports that Rte 117 leading from 9-Acre Corner was closed due to flooding.

Membership Report.
Membership chair Ray Harlan reports our membership roster stands at 68 for 2010.

Board of Directors Volunteer.
Alan Marshall volunteered to be the member at large for next week's BOD meeting.

Old Business.
Tom Stammberger is still waiting on pricing for hats and shirts with the CRRC logo, and will send an email when he has the information.

New Business.
See Ken Antonellis to get a new key for Medfield Bill Martin Field.

Dick Williamson and two Millis Club members attended a recent Cub Scout Blue and Gold Dinner in Ashland, and presented a program on model airplanes. They had 10 planes to show. The Cub's program theme for the evening was "Up And Away."

Millis Model Aircraft Club president Brad Kaye reports that their club is planning to add new fill to the road way into Bill Martin Field. (Brad was not present at the meeting, but his request was made through Dick Williamson.)

Adding new fill to the road is a once every two or three year event. MMAC is also constructing a shelter at the field. Brad asked if CRRC would like to support the effort. CRRC's share would be $1700 for both the road repair and shed.

Discussion followed. It was questioned whether CRRC's use of the field was dwindling as more members move to electric and fly at Davis Field. But there still seems to be a strong interest in maintaining a good relationship with MMAC, especially given that CRRC was the original user of Bill Martin Field.

A motion was made, seconded, and a unanimous vote to approve the expenditure of $1700 to support MMAC's efforts at Bill Martin Field.

Tom Stammberger has been flying with a group of electric flyers near Mitre Corp. at the intersection of Routes 3, 62, and Middlesex Turnpike, and recommends this location to others north of the Sudbury area.

The Spring Float Fly is scheduled for Saturday and Sunday, May 22 & 23, 9-3, at Wayland Town Beach. Wayne MacKeil offered to bring some dogs for grilling and sodas.

Tom Stammberger is hosting an Electric Challenge Fun Fly at Davis Field on April 25.

Jack Buckley has raffle tickets to support the New England Scale Team's trip to Warsaw Poland, this summer.

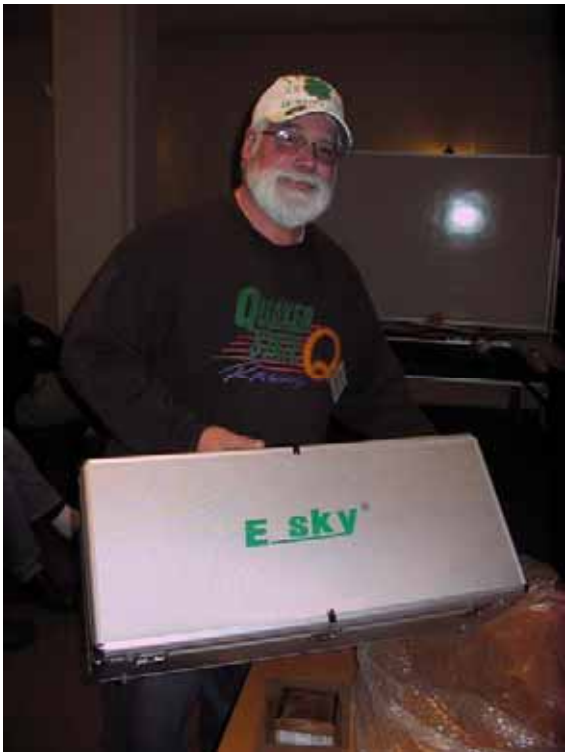
New Wings.
No new wings tonight.

Guests.
Jane Rice and her son Joshua from Ashland. Joshua was one of the scouts Dick met during his visit to the Ashland Blue and Gold dinner. Shane Boucher was our third guest for the evening.

The business meeting closed at 8:13 PM.

Raffle Winners.
First Prize: Watt's Up Wattmeter, Ray Harlan.

Second Prize: E-Sky Equipment Case, Wayne MacKeil.



Evening Program:
No guest speaker this evening. It was our Winter Projects Night Show And Tell.

Dick Roy showed his newly completed Mountain Models pattern plane. This is a laser cut model, and Dick has added a 350-watt brushless outrunner. Dick wanted to bring his plane to show and tell before having the maiden flight.

ohn Pulsifer showed Piper PA12 Super Cruiser. This plane is an old time design that John covered in Microlight and powered with a Hacker Brushless motor.

Larry Wetmore brought along his fuselage and wing panel for a Skybench Oly IIS under construction. He hopes to have it flying this season.

Ray Harlan displayed his newly finished Top Sky DLG from Chinese supplier Hobby Club. Ray made good use of his machinist skills to fabricate his own miniature clevises so that they would have minimal linkage slop. The plane came with fully assembled foam and carbon fiber wing panels, and it weighs in at a mere 10 ounces.

Stephen Young has a new Predator DLG from a Taiwanese manufacturer. The airframe weighs 6

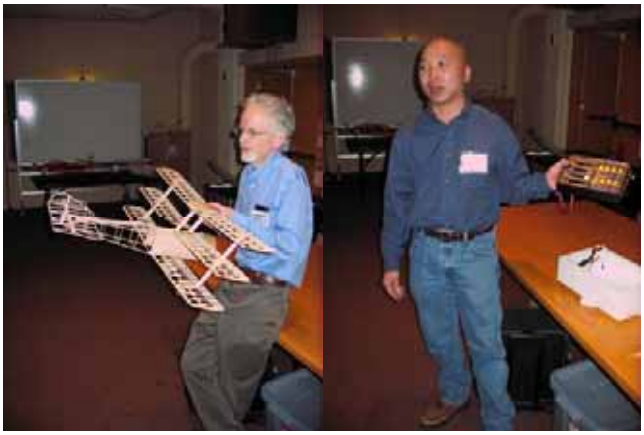
½ ounces without the electronics. Stephen plans to use a torsion spring to link the control surfaces.

David Spielman found a Siren glider at a recent auction. There was some damage that David repaired with fiberglass and Shoe Goo. The Siren has no rudder, only aileron and elevators.

Tom Stammberger purchased a brand spanking new Radian RTF glider at nearby Ashland's HobbyTown, and had it flying within 15 minutes after he arriving at Davis Field. The $240, three channel Radian has lots of power, and includes a Spektrum 2.4Ghz radio.

Tom also found a set of $10 floats at Hobby Lobby, for his old faithful Wing Dragon. Tom's Wing Dragon is still performing well after 3 years.

Evan Hadingham is working on a 1916 Sopwith Tri-Plane from Dare Hobby. Evan plans to electrify the kit and reports that it is very light and fragile.

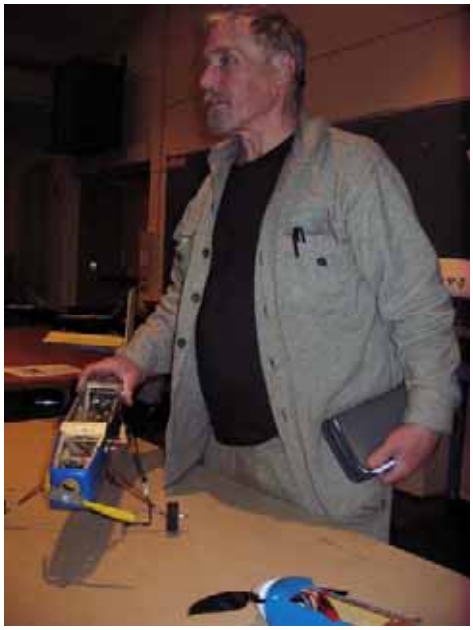


John Eppling has solved the problem of too many batteries and not enough time to charge them. He found a Quatro 4X6 Charger from Hobby King. The Quatro 4X6 will balance four batteries at once, each at 50 watts. John is pleased with its performance.

Jack Buckley has a new E-flite Piper L4 ARF. The L4 took two and a half hours to assemble, comes with a 10C receiver, 250 brushless outrunner, 10 Amp ESC, and flies very nicely.

Wayne MacKeil brought his Electric Eclipse. He upgraded the motor and ESC, using the power plant from a Radian.

Art Stutts found a wooden glider of unknown origin at the MIT Flea Market. Art wanted assistance identifying the parts and what needed updating.



The meeting closed at 9:30 PM.

- ***Larry Wetmore***
Recording Secretary

2010 CRRC Events Calendar

April 2010:

CRRC Parkflyer Challenge Contest (Weather permitting)
Open to AMA pilots
Sun Apr.25 - Noon - 5:00p
Davis Field, Sudbury, MA

May 2010:

CRRC Spring Float-Fly
Open to AMA pilots
Sat May 22 & Sun May 23 - 9:00a - 3:00p
Lake Cochituate, Wayland, MA

CRRC Family BBQ Fun-Fly
CRRC, Millis & Guests only
Sun May 29 - 10:00a - 3:00p
Bill Martin Field, Medfield, MA

June 2010:

Collings Foundation Open House Demo
CRRC and guests only (*To be confirmed*)
Sat Jun. 19 & Sun Jun. 20 - 9:00a - 4:00p
Collings Foundation, Stow, MA

July 2010:

CRRC 4th of July Electric & Glider Demo
CRRC and guests only
Sun Jul. 04 - 9:00a - 4:00p
Davis Field, Sudbury, MA

Minute Man Airfield Open House Demo
CRRC – Invitation only
Sat Jul. 10 - 9:00a - 4:00p
Minute Man Airfield, Stow, MA

CRRC Handlaunch Classic
Open to AMA pilots
Sat Jul. 17 & Sun Jul. 18 - 9:00a - 4:00p
Davis Field, Sudbury, MA

CRRC RES Contest
Open to AMA pilots
Sat Jul. 31 - 9:00a - 4:00p
Davis Field, Sudbury, MA

August 2010:

CRRC EZ-Glider One Design Contest
Open to AMA pilots
Sun Aug. 01 - 9:00a - 4:00p
Davis Field, Sudbury, MA

CRRC Soar-In
Open to AMA pilots
Sat Aug. 14 & Sun Aug. 15 - 9:00 - 4:00p
Davis Field, Sudbury, MA

CRRC Electric Glider Contest
Open to AMA pilots
Sat Aug. 28 - 9:00a - 4:00p
Davis Field, Sudbury, MA

CRRC Radian One Design Contest
Open to AMA pilots
Sun Aug 29 - 9:00a - 4:00p
Davis Field, Sudbury, MA

September 2010:

CRRC Fall Float-Fly
Open to AMA pilots
September (TBD) - 9:00a - 3:00p
Lake Cochituate, Wayland, MA

October 2010:

CRRC Fall Electric Fun-Fly
CRRC, Millis & Guests only
Sat Oct. 16 - 9:00a - 1:00p
Bill Martin Field, Medfield, MA

November 2010:

CRRC 2010 R/C Auction
Public
November (TBD) - Noon - 5:00p
Natick WFW, Natick, MA

- ***Thomas Stammberger***
Newsletter Editor

Member Profile of the Month: Fritz Bien

I've loved airplanes as far as I can remember. I remember the C-47s that dropped SPAM from the skies at the end of the war when I was little. When I came to the U.S., I spent hours playing with the collection of airplane recognition cards and solid models my uncles had built and stored in my grandparents' attic in Oakland CA.

I started building models when I first moved to San Diego in 1951. There was a Kress's dime-store 3 blocks away where for one dime I was able to get a Comet stick-and-tissue including a tube of dried out cement. With my 10 cent allowance I would head to the dime store for the next plane I could butcher. My dad brought home acetone to make the cement work. Dope was expensive, and I would have had to go to the bike and hobby shop 2 more blocks away to get it so I used Le Page mucilage to stick on the paper. Razor blades were expensive, so I learned to modify my dad's used Gillette blue-blades by breaking them into fourths and put a piece of Scotch tape on one side to keep them from slicing my fingers. My first successful free-flight flew all of the way across my yard and destroyed itself on the redwood fence 50 feet away, but I was hooked.

By the time I was in Junior High, we moved to La Jolla Shores and found a new hobby shop. Soon the hobby shop owner knew me well, and every cent of my allowance and paper-route money was spent on models. I was working at the shop by the time I was in high school, and afforded my first radio, a single-channel "Airtrol" from AHC which didn't I couldn't get to work more than 100 feet from transmitter to receiver.

Figure 1: My first purposefully designed R/C glider is shown here: It was built in 1960, "controlled" by the red Citizenship 3-tube transmitter and the then new LT3 transistorized receiver which replaced the soft-tube one that never gave me more than 100 ft range. This plane had 4 position rudder and kick-up elevator, 2500 winds of rubber on the escapement.

I got into R/C gliders in 1959 and hung out at Torrey Pines about a mile from my house by road, where a local dentist had set a duration record of 5½ hours. I was soon converting my towline gliders to R/C.

After my degree and post-doc I came to Massachusetts for a permanent job in February 1971. The first thing I did was to check the Yellow Pages for hobby shops in the area, and found Fisher R/C. I got directions to the shop, found out it opened Friday evening; I drove out to where the store was supposed to be in my rental car, but could only see a residential neighborhood, with one house apparently having

a party. Not trusting my notes on the directions, I waited till the next day, Saturday, and called and tried again. This time two little girls were playing in the yard and when I asked for directions, they guided me into Bob Fish's basement store.

Figure 2: My early radios clockwise from top left: Roaring20 with Kraft single channel with home-made galloping ghost 1963, Bjorn with Controlaire single channel servos 1964, Foka4 with Bonner 4RS 1967, and Cirrus with Kraft Gold Medal 1968. Kelly Pike, in the hat, and I started the Torrey Pines Gulls in 1969.

Bob introduced me to CRRC which was flying on the Wayland High athletic field once the weather was to turn, and held their meetings at the Newton YMCA. Bob also put me in touch with Dick Janssen, the only one who flew sailplanes in the area. I asked about slope soaring and Bob organized a Sunday expedition to Cape Cod.

We gathered at the shop on Friday nights to watch home movies and to see the latest developments of home-made helicopters by Ernie Huber, the latest flying adventures by expert R/C pilots as John Ross, Harvey Thomasian, Denny Sawyer, Joe Zacame, Guy Corrachio, and the like. I went to the meeting on the third Wednesday, or March 17 1971; two days after the moving van brought my airplanes in from California.

Figure 1 Elmira 1976 with my Maestro back when I used to win contests. Elmira is one of the premier soaring sites in the US

Bob Fish was really the tireless worker that promoted CRRC and the R/C hobby as a whole. While he never attended a meeting since his shop was open in the evenings, we held our Action Committee the predecessor of Board of Directors meetings there. It is that selfless dedication to making the club go by working in the trenches while not being a club officer that we present the Bob Fish award each year.

Figure 2 Don Gaughner presents me with 1st place trophy 1977 LSF National Tournament York PA Laura Meleske, John Hayes and wife with Gordon Stratton behind scoring table.

Over the years with CRRC I've served at the club president 3 times and newsletter editor 11 times, avoiding those work-intensive positions as secretary, treasurer and VP. I've also acted as the principal instigator and CD for a bunch of club events such as the Soar-In, H-Ray, Quickie-500, 1/2A and Scooter 2 pylon racing, New Year's Day Fly-Ins, Cape Cod slope trips, Easy Glider and RES contests and early electric fun-fly contests, always starting new crazy ideas, then passed off to more capable hands to carry out and do right.

I now fly mostly out at Davis Field, both days every weekend and still attend several of the Eastern Soaring League's contests up and down the East Coast, but don't have the energy to travel on a weekly basis anymore.

- Fritz Bien

Guest Speaker: Bob Rice

"New Trends in the RC Industry"

Bob Rice took over the Hobby USA store in August 2002 and operated it in Bellingham until March 1, when he brought it back "home" to Ashland, in a space directly across the street from Shaw's. Hobby USA is located at 316 Pond St., in the Sears Hardware Plaza in Ashland.

The store carries all kinds of popular hobby product lines, including radio-controlled cars, boats and planes; scale models; strategy and collectible card games; model railroad products; kites and rockets; metal detectors; telescopes and puzzles.

Bob is an honorary Millis member. He will talk about the new trends in the industry and the new AMA rules for park flyers and how they will affect new products. He will also bring some new models for us to see. We are looking forward to his presentation.

- Richard Gammon

Second speaker of the night:

Richard Gammon

In addition to Bob rice's presentation and if time allows, Richard will be giving an introduction to Profili 2.0, a free software for wing airfoils managing, drawing and analysis.

Slope Soaring @ Deer Island

It was a GREAT day of flying on Sunday April 11. We (Tom B. and Tom S.) arrived at Deer Island around 11:00.

There was a nice early morning steady breeze of 15 mph for about an hour - very relaxing enjoyable flying.

Then the wind started to pick up to about 25MPH and the energy built until about noon when the winded turn too far north to fly.

It would be great if more CRRCers join us on this great slope, especially when it is too windy to fly at Davis. On the next windy weekend, and if the wind direction is favorable, let's get a good size group together and do some serious slope soaring.

- Tom Bauer
- Tom Stammberger

Passing of Ed Devereux

Long Time CRRC member Ed Devereaux passed away at the age of 86. Although not an active flyer of late, Ed would come to Medfield to watch and enjoy the flying. Our thoughts and prayers go out to the family and friends of Ed Devereux for their loss.

CRRC BUILDING AND FLIGHT INSTRUCTORS

To start your flight instruction; please call our chief instructor:

Richard (Dick) Williamson
978-618-5475

Dick will match you with one club instructors. Our instructors are qualified and willing AMA pilots and fellow club members.

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 Brian or any of the building instructors.

Name	Town	Phone	Building	Glider	Electric	Fuel	Helicopter
Dick Williamson	Sudbury	978 618-5475	Yes	Yes	Yes		
Fritz Bien	Concord	978 369-1720	Yes	Yes	Yes		
Tom Bauer	Wellesley	781 235-7344	Yes	Yes	Yes		
Brian Rickman	Marlborough	774 249-2494	Yes		Yes		
Derick Veliz	Acton	978 337-7867	Yes		Yes		
John Weigel	Natick	508 655-2138	Yes				
Richard Gammon	West Boylston	508 835-2049	Yes	Yes	Yes	Yes	
Ken Antonellis	Natick	508 653-8369		Yes	Yes	Yes	
Bruce Schneider	Hudson	978 562-9900		Yes	Yes		
Lincoln Ross	Maynard	978 800-0608		Yes	Yes		
John Nilsson	Clinton	978 368-7136		Yes			
Dave Walter	Hudson	978 562-5400		Yes			
Tom Stammberger	Winchester	617 501-7403			Yes		
Jon Leehey	Wayland	508 358-5721				Yes	
Tony Davids	Stow	978 568-9598					Yes

TREE CLIMBERS, KEYS, MEMBERSHIP & BOARD MEETING

TREE CLIMBERS

Loyd Keyes: *[Wayland]*
508-358-9197 or 508-341-0110

Paul Harrington *[Medfield]*
508-376-2573

Monkey Man *[Marlboro]*
508-215-4290

Scott: *508-203-3845 [Sudbury]*

Tony Morais
A1 Tree Services [Framingham]
508-626-0088 or 800-657-7788

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

Keys to the Bill Martin Field

To get a Key for Bill Martin Field in Medfield please email Ken Antonellis at kxa(at)verizon.net.. Ken is the key-master. The key for the 2010 season is key #15. Ken will have exchange keys at the meeting. A $5 deposit is required the first time you receive a key.

MEMBERSHIP

Here are the updated CRRC membership figures. The table summarizes the membership status from 2000 through current month, 2010.

Year	Renewals	New Members	Peak Totals
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	124	26	150
2007	132	32	164
2008	100	23	123
2009	90	28	118
2010			69

-Ray Harlan
Membership Secretary

THIS MONTH'S DIRECTOR'S MEETING

The next directors meeting will be, Tuesday, March 27th at 7:30 PM, at the Sudbury Goodnow Library. All club members are invited to attend. Please volunteer to attend at the next club meeting.

THE CHARLES RIVER RADIO CONTROLLERS, INC

2010 MEMBERSHIP APPLICATION

AMA Charter 339

Name_____AMA No._____

Street_____Birth Date (AMA req'd)_____

Town_____State___Zip _____Tel. ( )_____-_____

E-mail _____

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

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(at)charlesriverrc.org)

Please make check payable to:

Charles River RC

Ray Harlan
Membership Secretary CRRC
15 Happy Hollow Road
Wayland, MA 01778
508-358-4013

E-mail: membership(at)charlesriverrc.org

SAVE $5 - EARLY BIRD DUES RATES ARE LISTED

	MEMBERSHIP CATAGORY	On or before Mar 1, 2010	After Mar 1, 2010
☐	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

☐ Send Newsletter via US Mail.

Help reduce operating costs by downloading the newsletter on line. CRRC pays roughly $20 per year for each mailed newsletter subscription

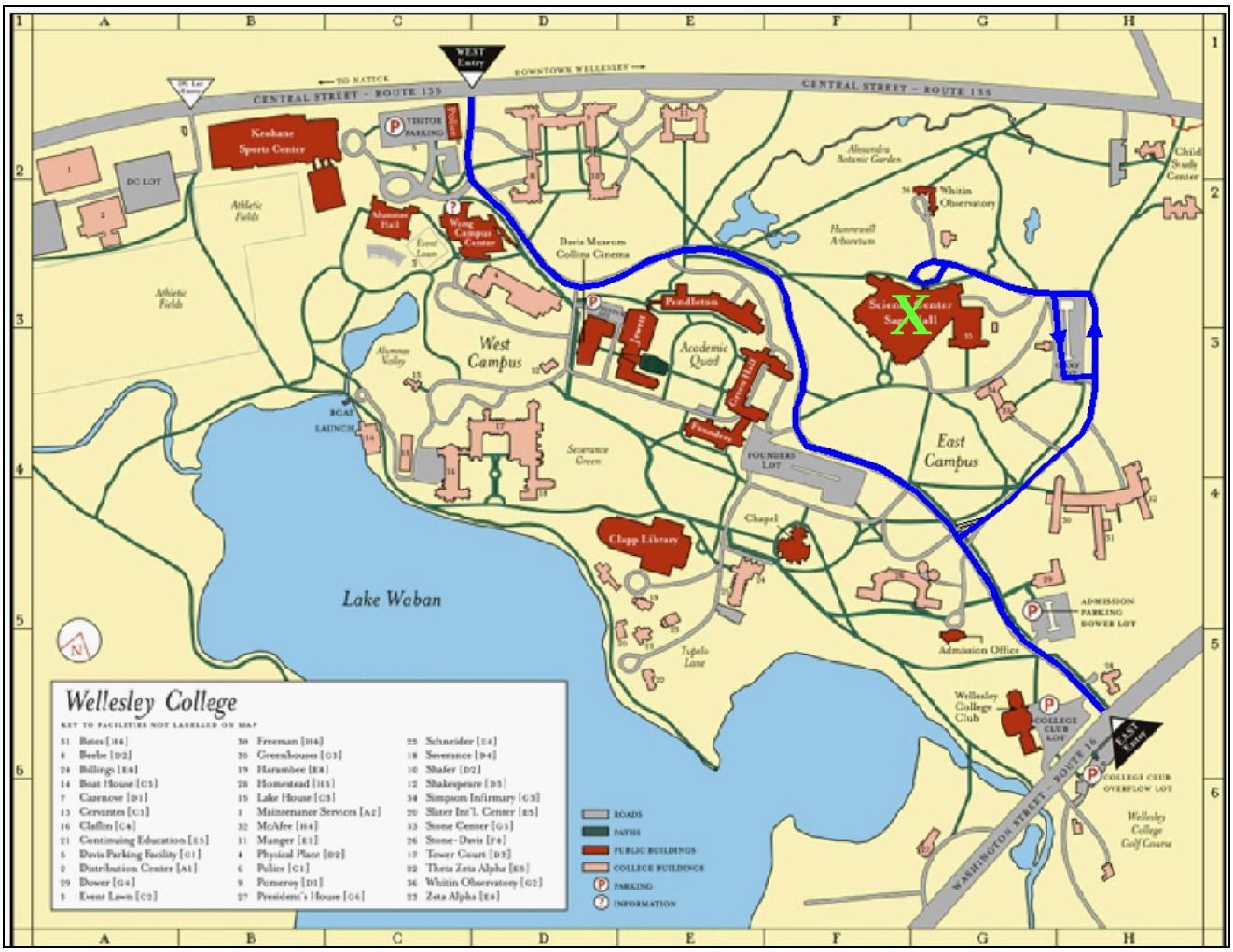
NOTICE: THIS MONTH CRRC CLUB MEETING
Guests are welcome!

When: ***Wednesday April 21th, 2010 (3nd Wednesday)***
Note: Check for the meeting announcement in our monthly Newsletter.

Time: ***7:00 p.m.***

Where: ***Wellesley College, Science Center, Room 277***

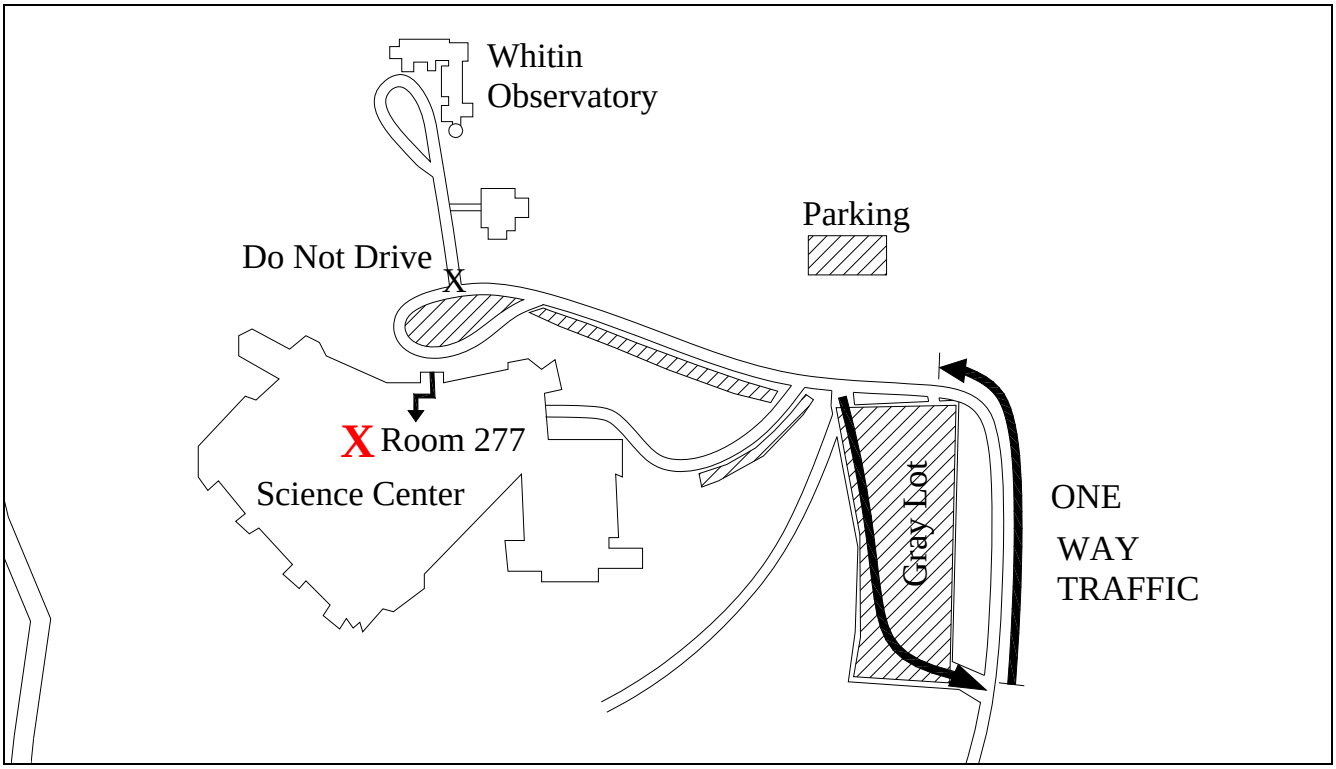
Directions: ***Drive to Wellesley College, 106 Central St, Wellesley, MA***
Enter at either Rt. 16 or 135 entrances. Follow path below to Science Center.



More info on next page…

NOTICE: THIS MONTH CRRC CLUB MEETING

Below is a detail map of the Science Center showing the unusual traffic flow around and through Gray Lot. Please don't turn the corner to the observatory entrance as students maybe observing if it is clear out. Park in any of the hatched areas. You may drop off items at the door marked with the Enter Here arrow. The room 277 is across the hall and slightly to your right as you enter.



Thomas Stammberger
Newsletter Editor
Newsletter(at)charlesriverrc.org
(617) 501-7403

CRRC 2010
Electric Parkflyer Challenge
(AMA Membership required)

Davis Field, Sudbury, MA
165 North Rd (RT 117), Sudbury, MA

Sunday April 25th, 2010 (Weather permitting)

Flying Noon - 5 p.m. - $5 landing fee

Challenges:

LOOPS
Most loops in one minute. Timed from takeoff.

BEADS ON A STRING
Most rolls in one straight pass, within two boundaries on the field.

3 MINUTE BLIND FLIGHT
Time starts at takeoff; ends on landing and engine off. Pilot must estimate an elapsed time of three minutes.

DEAD STICK SPOT LANDING
Dead stick closest to a balloon on the field without touching it. Touching balloon disqualifies.

DEAD-STICK LOOPS
35 sec. power on climb from take off, kill engine, and make max. number of loops before landing. Fall-offs count for 1/2 a loop. Score one additional loop for stopping within a 20' x 20' area on the field.

THE BLENDER
Shortest time to take off, do 3 rolls, 3 loops, 3 snap rolls, and 3 spins (in any order), then land. Time starts at take-off end on touch-down.

FAST AND SLOW
Plane flies a straight course twice. First pass is a full throttle. Second pass is flown slowly as possible, maintaining reasonable altitude and course. Attain the largest difference between the two times.

HANDS OFF
Pilot has one minute from takeoff to trim for "hands-free" flight. At the end to the first minute, hands must be behind the back. Achieve the longest time before having to take control of the plane.

LIMBO LOOP
Fly twice under a thirty foot crepe paper ribbon strung between two poles 5 ft. of the ground while performing a loop. Double points for doing it inverted.

MUSICAL AIRPLANES (Old planes recommended)
Planes in the air flying an oval pattern. When the horn blows, all aircraft must land. Last plane down is eliminated. Repeat until last two planes land.

CD: Thomas Stammberger e-mail: tstammbe@yahoo.com

Check www.charlesriverrc.org for cancellation due to weather

CRRC 2010
Spring Float Fly

(AMA Membership required)

Wayland Town Beach
Parkland Drive Extension, Wayland, MA

May 22nd & May 23rd, 2010

Flying 9 a.m. to 3 p.m. both days
$10 landing fee for weekend

CD: Ruane Crummett e-mail: CRRCPLANES@Netzero.net
Check www.charlesriverrc.org for any announcements