

NEWSLETTER OF THE CHARLES RIVER RADIO CONTROLLERS, INC



AMA CHARTER 339

March 2003

VOLUME 40 NUMBER 3

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508 358-5721

jon.leehey@alum.mit.edu

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508 653-3560

joel.foner@fonerassoc.com

GENERAL MEETING

Wednesday
March 19th 7:30
PM

**Winter
Projects Night!**



Or...

Bring your latest creation!

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FEBRUARY RAFFLE

1st Prize *

A Hitec Micro 555
complete flight pack (with
3 HS81 servos and
battery!)



2nd Prize *

Herr Engineering
TaylorCraft rubber power
airplane kit.



3rd Prize *

Gallon 'o Fuel or
Selection of Cool Tools.

*Show and Tell prize will be:

A special useful tool!

Thanks to Alex of Alex's R/C Hobbyworks
for their discount to the club. Please
consider them for your next hobby purchase.
Alex's is located in Belmont, near the
intersection of Belmont, Watertown and
Cambridge, at 129 Belmont St.

Jon Leehey
Raffle Chairman

SPECIAL "KEY" NOTE:
(Snicker!)

Alex now has a healthy supply of new keys for the gate. The key number is 27. If you would like one from me, send a S.A.S.E. to me along with your old key and I will get you a new one or stop by at the next club meeting I will be there.

If you do not have an old key, there is a one-time \$5.00 deposit.

—Ken Antonellis

**Davis Field Spring
2003 Schedule**

Because of the construction of the new Lincoln-Sudbury Regional High School, a number of sports groups have been forced to shift their activities from the high school fields to other fields in Sudbury.

This pressure on field space will continue until the high school and its playing fields are completed sometime in 2004.

Two of the sports groups that have shifted to Davis Field are the Sudbury Youth Lacrosse program and the LSRHS lacrosse team. They will start using Davis Field as soon as it is sufficiently dry.

Practices will start at 3:30 PM on weekdays and extend to dusk. On weekends, practices and games will start at 9 am on Saturdays and 10 am on Sundays. The field will be in use until dusk both days. The final weekend of lacrosse will be June 14-15.

The first weekend free for CRRC flying will be June 21-22. Let's celebrate the summer solstice by flying all weekend!

—Dick Williamson

**MEMBERSHIP
STATISTICS.**

Here are the updated CRRC membership figures.

The table summarizes the membership status, and compares recent years.

Year	Renewals	New Members	Total
1999			135 (Peak)
2000	112	62	174 (Peak)
2001	124	50	174 (Peak)
2002	138	58	196 (Peak)
2003	126	6*	132

* The 6 new members include 2 genuinely new members and 4 members who rejoined after a lapse of a year or more. 5 of last year's members will not renew. That means that we are still waiting for 65 of last year's members to renew for 2003.

I will send out an updated membership list around the first of each month.

—Dick Williamson

Shriners Contest

**April 13th 2003
Shriners Auditorium
Wilmington, MA**

**R/C Barnstormers
Salem / New Hampshire
Annual Auction**

Sunday, March 23, 2003

Salem Boys and Girls Club
Geremonty Drive, Salem, NH
03079

Directions:

I-93 North or South, take exit 1 - Rockingham Park Blvd. Straight across Rt. 28, go 3/4 mile, turn left on Geremonty at blinking light. 1/2 mile to club on right.

Auction Format:

Entrance fee: \$3.00 (Kids Free!)
Minimum bid \$10
Club receives 10%
Maximum fee \$50

More Info:

Bills Hobby Barn
(603) 898-9241
Or Visit:
www.rcbarnstormers.net

**Central Massachusetts
Radio Control Modelers**

"CMRCM Scale Fly In"

Start Time: 10:00 AM
Ending Time: 5:00 PM

Event Description:

The date for the CMRCM Scale fly in is set. September 14, 2003
The contest director is Jim Sbrogna .

WWW.CMRCM.ORG

**2003 Lazy Loopers
Auction**

DATE: Sunday, **MARCH 16**, 2003

Please note the MARCH date

PLACE: Franklin Elks Hall, 1077
Pond Street, Franklin, MA

TIME: 12:00 Noon (sellers'
registration starts at 11:15 AM)

PURPOSE: The auctioning of
Radio Control related equipment
from and to non-commercial entities
<http://www.lazyloopers.com/>

TREASURER'S REPORT

Report Date: 2/28/03

Starting Balance 1/31/03	
Checking (after #1292)	4,841.50
Savings	4,583.04
Cash	25.00
Total Starting	9,449.54
Income	
Interest on Savings (December)	3.48
Total Income	3.48
Expenses	
Teamworks – Indoor Flying, February #1293	120.00
Mike Cormier – Feb. Newsletter #1294	40.87
Dick Williamson – Club Charter, misc. #1295	362.00
Jonathan Leehey – Raffle Prizes #1296	378.06
Wayne Nelson – Indoor Flying, March #1297	120.00
Commonwealth of MA – Annual Report #1298	15.00
Monthly Bank Fee (December)	11.00
Total Expenses	1,046.93
Ending Balances	
Checking (after #1298)	3,794.57
Savings	4,586.52
Cash	25.00
Total Ending 2/28/02	8,406.09

Signature: *Miner Crary*

PRESIDENT'S Message

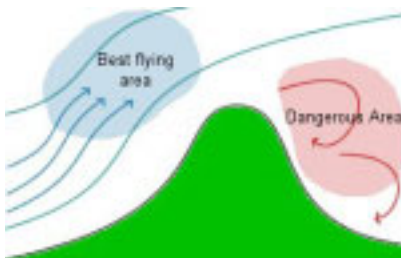
**“Since many of us are very
interested in learning slope**

**soaring... Cape Cod here we go!
When is spring?”**

Generation of Slope Lift

Slope soaring has been used by birds for aeons and was used by glider pilots for just over a century. Anytime there is an obstruction to the wind, such as a hill, dune, or building, the wind has to get around it somehow. Immediately in front of the obstacle, the wind is forced upward to get over the obstacle resulting in rising air streams capable of sustaining flights.

The slope lift most commonly explored by RC slope soarers is



those generated in front of mountain slope.

The wind coming from the ocean or a plain hits the slope and is forced upwards. The situation on the other side of the mountain is totally different. Here, dangerous rotors and turbulence are generated and may crush your planes if you dare to fly over this area. Some advanced soarers may take advantage of wind speed difference between the compression side and the decompression side of the slope to do so called dynamic soaring, then they need to fly over the decompression side of the slope in high speed under a controllable manner.

Launching the sailplane

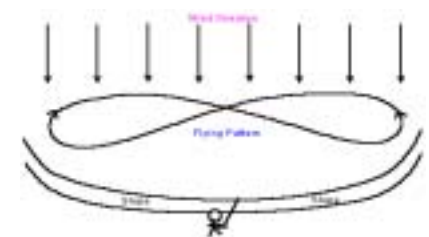
For launching the sailplane on a slope, point the plane slightly



downward and release it gently towards the heading wind. The plane may lose altitude initially but as the speed gradually picks up you may apply a bit up elevator to level the plane. Don't point the plane on an upward angle for launching! Since the wind may blow the plane to a stall or a flip over and render the plane to an uncontrollable state.

Best flying pattern for practicing

If the lift is plenty, fly your plane away from the slope where you will have more air space. The best and safer flying pattern for learning basic flying skill is a figure-8 pattern.



First, you level your plane in a course parallel to the slope face, then at the edge of the flying compound, turn your plane away from the slope and head towards the prevailing wind. After the turn, you should level your plane and fly towards the other side of the compound again in a course parallel to the slope face. At the edge, also make your turn towards the heading wind and repeat the flying pattern again.

Landing

To land is much more difficult than to launch. The choice of landing approaches is very much depending on the topography of the flying site. A perfect landing area is the one that is on the mountaintop with flat grassland and no obstruction nearby.

Copyright 2000, Stanley Chan
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<http://www.rcsail.com/sailplane.html>

-- Derick Veliz

FEBRUARY GENERAL MEETING

Secretary's Report: February 2003 General Meeting

Mark Drela opened the business meeting at 7:30pm.

Secretary's report was approved as printed in newsletter.

Treasurer's report was approved as printed in newsletter.

Field Reports

Medfield – Chris has done a great job plowing. Lots of fliers out in spite of the weather.

Davis – Plowed out as well.

Old Business

Membership:

- 115 members so far in 2003
- 194 peak members in 2002

New Business

Next BOD meeting is February 25th. John Weigel volunteered to attend as member-at-large.

The WRAM show is this coming weekend.

New keys for Medfield will be available at the end of the Month.

Dick noted that members could sign up without their AMA card if necessary. Dick can call AMA to confirm membership.

Yearly awards were presented:

- **Instructor of the Year** – Dick Williamson

- **Bob Frist Memorial Award**
– Les Gerhardt

Raffle

MRC SuperBrain Charger –
Jeremy Harkin

Radio Glove - (John Weigel?)

Miter Box (cool Tool) –
Tracey Clark

Show and Tell – Razor Saw – Dick
Williamson

New Pilots

None.

Guests

Bill Condin – Guest, flies power
and gliders.

Mike Ducros – New member, flies
electric.

*Mark closed the business meeting
at 8:00pm.*

Show And Tell

Dick Williamson – A Paragon
Sailplane he modified with spoilers.
Dick made creative use of rare earth
magnets in the canopy and spoiler
design.

John Weigel – An electric model
in caricature of a Curtis Robin.

Ken Antonellis – A Zagi

Bill Condin – Zagi he won in the
January meeting. He set it up with a

Hitec radio won at another club
raffle!

Bob Scott – An old Ace radio kit.

Tomer Jackman – Gave some
info on how to make TX adapter
cables for CRRCsim.

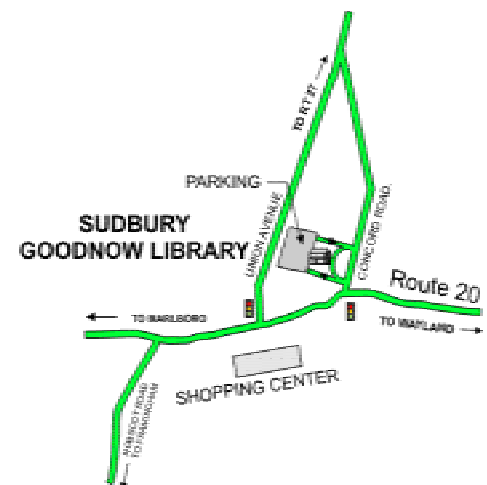
Speaker

Gordon Johnson gave a very
interesting talk about micro flyers.
He gave lots of info on new Li-Ion
battery technology, and the design
and construction of micro flyers.
Some highlights included a
demonstration of 145mAh batteries
that weight just 3.6gm and micro
planes small enough to fly in large
living rooms.

--Jeremy Harkin

MARCH DIRECTOR'S MEETING

**The next directors meeting will
be, Tuesday, March 25th at 7:30
PM, at the Sudbury Goodnow
Library.**



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
Larry Copeland	E. Walpole	508-668-0448
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

CRRC LIBRARY

The club keeps a library of videos and books. They are made available at club meetings. If you cannot come to the meeting, and would like to borrow a video or book, call Ken Antonellis at **(508) 653-4513**.

Videos:

1996 World Masters Aerobatic Championships
AMA – The Pioneers (25 min)
Byron – New Generation of Modeling Products (17 min)
Byron – R/C Wars

Combat Models – Fighter town Demo (8 min)
Coming of Jets & History of the DC3
Dynamic Soaring
Elmira '97
Endless Lift
Hot Stuff Video (60 min)
Local Flying (Medfield)
Military Aircraft
Monokote 1 & 2
Old Buzzard Goes Flying
R/C Helicopters
R/C Info and Tips
R/C Ornithopter Research
Project R/C Soaring from the Ground Up

R/C Video Magazine, Vol. 1-13
Scale Aircraft Documentation
The Light Stuff (Daedalus Project)
Wring It Out, Vol. 2

Books:

1993 Don Edberg Complete Source Book
AMA – Sound and Model Aeronautics
Aviation Heritage Magazine – B2 Flying Wing
Completely Cars – Harry Higley
Trainers (R/C Magazine)

TREE CLIMBERS

Tony Morais

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

Brian Pikarski

Burlington, MA
617-797-2136

Kenny Greeno

Office Phone: 617-661-8591
Cell Phone: 617-839-1814

Paul Harrington

(508) 376-2573 [Medfield Area]

CRRRC CALENDAR OF EVENTS

The calendar of events for the year was determined in the January Board of Director's meeting. If you have a favorite event you want included on the 2003 Calendar, please come to the Board Meeting and bring it up. For an up-to-date list of area events check: http://www.charlesriverrrc.org/calendar_events.htm.

March	Sponsor / Event / Location,
Mar 8 (Sat)	CRRRC Indoor RC Fun-Fly at Teamworks Northboro
Mar 19 (Wed)	CRRRC Club meeting at Verizon Waltham
Mar 25 (Tue)	CRRRC Board meeting at Sudbury Library
April	
Apr 5-6 (Sat-Sun)	CRRRC Spring Cleanup at Bill Martin Field in Medfield
Apr 16 (Wed)	CRRRC Club meeting at Verizon Waltham
Apr 22 (Tue)	CRRRC Board meeting at Sudbury Library
May	
May 21 (Wed)	CRRRC Club meeting at Verizon Waltham
May 27 (Tue)	CRRRC Board meeting at Sudbury Library
June	
Jun 7-8 (Sat-Sun)	Collings Foundation fun-fly in Stow, MA
Jun 18 (Wed)	CRRRC Club meeting at Verizon Waltham
Jun 24 (Tue)	CRRRC Board meeting at Sudbury Library
July	
Jul 16 (Wed)	CRRRC Club meeting at Verizon Waltham
Jul 19 (Sat)	CRRRC RES (rudder-elevator-spoilers) sailplane contest at Davis Farm Field
Jul 20 (Sun)	CRRRC HLG (hand launched glider) contest at Davis Farm Field
Jul 22 (Tue)	CRRRC Board meeting at Sudbury Library
August	
Aug 9-10 (Sat-Sun)	CRRRC Open Class ESL contest at Davis Farm Field
Aug 20 (Wed)	CRRRC Club meeting at Verizon Waltham
Aug 26 (Tue)	CRRRC Board meeting at Sudbury Library
September	
Sep 17 (Wed)	CRRRC Club meeting at Verizon Waltham
Sep 20 (Sat), Sep 21 rain date	Woodson Farm Festival in Amesbury, MA
Sep 23 (Tue)	CRRRC Board meeting at Sudbury Library
October	
Oct 4 (Sat)	CRRRC Electric Fun-Fly at Bill Martin Field in Medfield
Oct 15 (Wed)	CRRRC Club meeting at Verizon Waltham
Oct 21 (Tue)	CRRRC Board meeting at Sudbury Library
November	
Nov 9 (tentative)	CRRRC Auction
Nov 19 (Wed)	CRRRC Club meeting at Verizon Waltham
Nov 25 (Tue)	CRRRC Board meeting at Sudbury Library
December	
Dec 16 (Tue)	CRRRC Board meeting at Sudbury Library
Dec 17 (Wed)	CRRRC Club meeting at Verizon Waltham



THE CHARLES RIVER RADIO CONTROLLERS, INC

2003 MEMBERSHIP APPLICATION

AMA Charter 339

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**

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

To receive membership card and field pass, bring this application to a club meeting, or mail with a copy of your Year 2003 AMA LICENSE, appropriate dues, and a **SELF ADDRESSED STAMPED ENVELOPE** to:

Dick Williamson /Secretary CRRC
P.O. Box 398
Lincoln, MA 01773
Telephone 978 443-8549
E-mail: williamson@ll.mit.edu

Membership Type:	Yearly Dues:
OPEN Member	\$35.00
JUNIOR member, (under 19 before 7-1)	\$20.00
SENIOR member, (if age 60 before 7-1)	\$25.00
Full time STUDENT	\$20.00
Family member additional to OPEN membership	\$20.00

I'M INTERESTED IN THE FOLLOWING:

- ☐ TRAINERS/SPORT PLANES
☐ GLIDERS
☐ INDOOR/PARK FLYERS

- ☐ ELECTRICS
☐ HELICOPTERS
☐ SCALE

- ☐ PATTERN
☐ RACING
☐ GIANT SCALE

☐ OTHER (specify) _____

FREQUENCY DATABASE

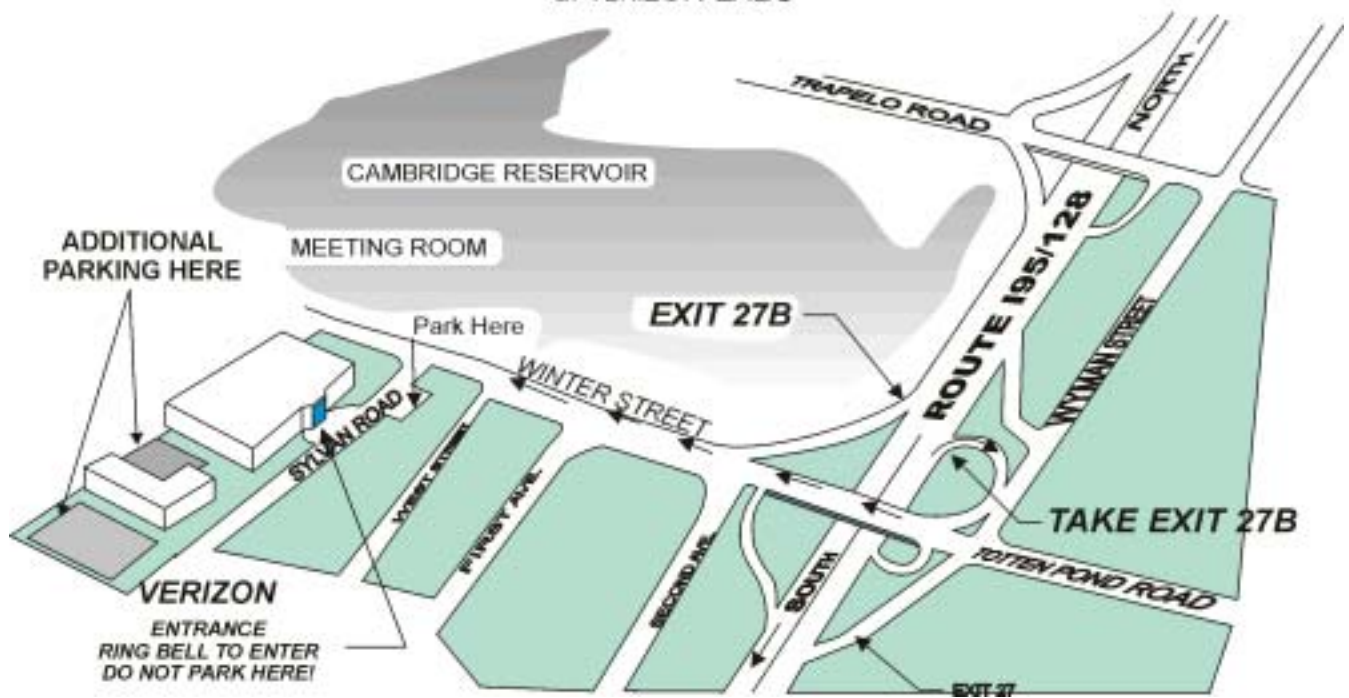
This database is made to help you select future radios that have the fewest conflicts with ones used by others at the flying field. Put the number of transmitters that you own for each frequency. **Add D if it is your primary frequency at Davis and M if it is your primary at Medfield.**

11> _____ 16> _____ 21> _____ 26> _____ 31> _____ 36> _____ 41> _____ 46> _____ 51> _____ 56> _____
12> _____ 17> _____ 22> _____ 27> _____ 32> _____ 37> _____ 42> _____ 47> _____ 52> _____ 57> _____
13> _____ 18> _____ 23> _____ 28> _____ 33> _____ 38> _____ 43> _____ 48> _____ 53> _____ 58> _____
14> _____ 19> _____ 24> _____ 29> _____ 34> _____ 39> _____ 44> _____ 49> _____ 54> _____ 59> _____
15> _____ 20> _____ 25> _____ 30> _____ 35> _____ 40> _____ 45> _____ 50> _____ 55> _____ 60> _____

HAM LICENSE CHANNELS: license may be checked at the field!

01> _____ 02> _____ 03> _____ 04> _____ 05> _____ 06> _____ 07> _____ 08> _____ 09> _____
53.1> _____ 53.2> _____ 53.3> _____ 53.4> _____ 53.5> _____ 53.6> _____ 53.7> _____ 53.8> _____

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



Michael Cormier / Editor
48 Bacon Street. # 8
Waltham, MA 02451-4349