

NEWSLETTER OF THE CHARLES RIVER RADIO CONTROLLERS, INC



CRRRC FLIGHT-LOG

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

AMA CHARTER 339

FEBRUARY 2003

VOLUME 40 NUMBER 2

2003 CRRRC OFFICERS

PRESIDENT

Derick Veliz

978-266-1739

dveliz@omr-architects.com

VICE -PRESIDENT

Mark Drela

617-253-0067

drela@mit.edu

MEMBERSHIP SECRETARY

Dick Williamson

978 443-8549

williamson@ll.mit.edu

RECORDING SECRETARY

Jeremy Harkin

781-894-6683

jeremy_harkin@yahoo.com

TREASURER

Miner Crary

978 443-8209

m.crary@attbi.com

NEWSLETTER EDITOR

Michael Cormier

781-894-0720

michaeljc@rcn.com

Ex-Officio and RAFFLE CHAIRMAN

Jon Leehey

508 358-5721

jon.leehey@alum.mit.edu

WEBMASTER

Joel Foner

508 653-3560

joel.foner@fonerassoc.com

GENERAL MEETING

Wednesday
Feb 19th 7:30 PM
Guest Speaker:

Gordon Johnson

"NanoMücke"



Micro R/C airplane.
"8 to 9 gram room flyer!"

FEBRUARY RAFFLE

1st Prize *

Choice of Charger:
Hobbico Quick Field
Charger MKII (Dual
Channel!) OR MRC
SuperBrain



2nd Prize*

Radio Glove for winter
flying

3rd Prize*

Gallon 'o Fuel or selec-
-tion of "cool tools"

***One prize awarded from each category.**

***Show and Tell prize will be
selection from Cool Tools.**

*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.*

*John Leehey
Raffle Chairman*

Table of Contents

Raffle Prizes Jon Leehey	...1
Treasurer's report Miner Crary	...2
President's Message Derick Veliz	...2
December Meeting Notes Jeremy Harkin	...3
CRRRC Building & Flight Instructors	...4
CRRRC Lending Library	...4
TREE CLIMBERS	...4
Membership Statistics Dick Williamson	...5
How Tools Are Really Used.	...5
February Board of Directors Meeting	...5
CRRRC Events Calendar	...6
New England Area Club Auctions.	...6
2003 Renewal Application	...7

TREASURER'S REPORT

Report Date 1/31/03

Starting Balance 12/31/02	
Checking (after #1287)	3,387.18
Savings	4,579.19
Cash	25.00
Total Starting	7,991.37
Income	
Dues	1,625.00
Raffle (December, January)	280.00
Indoor Flying (January)	181.00
Interest on Savings (December)	3.85
Bank Credit	50.00
Total Income	2,139.85
Expenses	
Reverse #1282 – Pete Young	(95.00)
Teamworks – Indoor Flying #1288	120.00
Mike Cormier – Newsletter #1289	65.36
Dick Williamson – Goodnow room #1290	195.00
Tom Bauer – Raffle Prizes #1291	73.36
Jonathan Leehey – Raffle Prizes #1292	237.45
Bank Charge (new checks)	73.30
Monthly Bank Fee (December)	12.21
Total Expenses	681.68
Ending Balances	
Checking (after #1292)	4,841.50
Savings	4,583.04
Cash	25.00
Total Ending 1/31/02	9,449.54

Signature: **Miner
Crary**

PRESIDENT'S Message

"Learning to Fly"

When I started to be interested in

R/C airplanes I was living in the basement of my father's house.

After work I would spend hours navigating the Web trying to find and learn more about this hobby. I found that flying a R/C airplane was more complicated than I expected and, I got very confused reading all of the regulations and restrictions. I was very disappointed, but I never gave up.

One night I found electric R/C airplanes were available. This was great! Usually gasoline was used to feed the engines so this was a big deal. Regulations for noise levels where critical, and restrictions applied to flying almost no where. Since electric airplanes produce less noise than a gasoline airplane they can be flown at a local park or parking lot. After flying a gasoline airplane you also have to clean all the oil and mess off your airplane.

All these reasons made me think that an electric airplane was my best choice. I went back surfing the Web and found hundreds of electric airplanes, even on the beginner section. After a while I narrowed my selection and at the end I picked my first R/C airplane. I placed an order



through a web site (NSP) for an airplane called "Dragon-Fly".

After couple of nights reading the instruction and trying to figure how everything builds up together, I decided to go on and build my electric airplane.

I started with the fuselage, it looked like a bridge structure with a pipe going all the way through. Then I built the motor mount and tail surfaces like the stab and elevator.

The best part was building the wing. After gluing the foam and sanding the edges a big and light wing was done. The foam was white so I also painted in yellow and red. Now I was ready for the electronics.

That same night my airplane was ready to hit the skies.

The next morning I went to a parking lot next to a church, I pulled out my plane from my truck and plugged everything in. I was ready to go full power and fly away.



I was very nervous. My airplane took off, and after 3 or 4 seconds, my plane turned left. Breathless, I did nothing, letting my plane crash into a tree. The motor mount was broken.

I went back home and did major repairs. After my first attempt at flying I realized that learning to fly wasn't going to be that easy. After six or more attempts and crashes, my airplane was flying like an eagle. I learned to fly the hard way, crashing and crashing until I finally tough myself "How to Fly".

-- Derick Veliz.

JANUARY GENERAL MEETING

Secretary's Report: January 2003 General Meeting

Derek Veliz opened the business meeting at 7:35pm.

Secretary's report was approved as printed in newsletter. Treasurer's report was approved as printed in newsletter.

The attendance book was passed around. We ask that new members introduce themselves and indicate their interest in the hobby

Field Reports

Davis – It's still there... Chris did a great job plowing.

Medfield – Lots of pilots turned out for the FFFF on New Years day. Flying was great with no wind.

Old Business

Membership

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

New Business

Next BOD meeting is January 21st. Peter Lofgren volunteered to attend as member-at-large.

The Merrimac Valley R/C Club is hosting a number of indoor/rubber power events in the upcoming months:

- Free Flight Indoor Fly at Georgetown (MA) HS Gym: January 26, February ??, March 16
- Annual Indoor Event at Shriners Auditorium, April 12 (all day)

3 frequency pins were found at the Jan 11 Indoor Fly at Teamworks. Contact Mitch Buckley

NCRCC is hosting an R/C Auction February 9th – Vernon Center Middle School, Vernon CT.

Cape Anne R/C Club is hosting an R/C Auction March 2nd.

Raffle

Zagi 400X – Bill Condin
Hobbico Microsizer R/C Car – Derek Veliz
Ball Driver – John Weigel

New Pilots

Andrew Johnsen soloed with his Terry.

Guests

Matt Hargus – Has built a basic trainer

Bill Condin – Returning member, flies power and gliders

Jay Martin – Flies gas power

Derek closed the business meeting at 8:45pm.

Show And Tell

Harvey Thomasian – Magic; Harvey calls it a 'real fun 3D flier' that he made to fly knife-edge by wrapping the LG in clear packing tape. He also came up with a unique single-cable pull-pull control arrangement.

Jack Hall – A "Magic" on skis. Power is a Webra .32

Tony Davids – Avistar trainer powered by an O.S. .40 LA

Bill Johnson – Scale model of a Gee Bee racer, an old kit that he saved from a mice infestation.

Mauricio Paulino and Jesus Gomez – A scratch build model based on the RealFlight 'Simple Flier.' Power is an O.S. .46FX on a tuned pipe!

Jeff Newcum – Firefly indoor flier with a GWS motor system with Li-Polymer batteries. Also an Electro powered sailplane.

Tomer Jackman – An 8 cell 300-mAh battery. Oh, and an airplane to carry it. Also a powered sailplane he built around a Gentle Lady wing.

Fritz Bien – A 15g balsa/tissue Nieuport 11 Bebe from a Nolan kit. Fritz came up with a novel way to make the markings from printed images.

Pete Young – A model rocket built by students in the HS outreach program he mentors. The rocket is built to carry 2 eggs to the greatest altitude possible.

Show/Tell Prize – Builders Triangle Set – Derek Veliz

Speaker

Vlad Gavrillets from MIT gave a fascinating talk about his Ph.D. research in helicopter autonomous navigation. He brought one of his helis – an X-Cell .60 that was modified with a .90 to carry the 7lb, \$20,000 autopilot system his team designed. The autopilot incorporates a GPS, inertial sensors and a microprocessor control to automatically pilot the Heli through a variety of pre-programmed maneuvers. Vlad showed video of the Heli performing aerobatics including an axial rolls and split-s guided by the autopilot.

--**Jeremy Harkin**
Recording Secretary.

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]

MEMBERSHIP STATISTICS.

Here is the updated CRRC membership list.

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	108	3	111

The 3 new members include one genuinely new member and 2 members who rejoined after a lapse of a year or more. Two of last year's members will not renew. That means that we are still waiting for 86 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

How Tools Are Really Used

By J. D. Woods

Sure, we all use tools in pursuit of our hobby and we know how to use them ... don't we? My friend, Larry Dickinson, experimental aircraft builder and engineer for that "other" automotive company, sent the following along. Puts a whole new light on the subject.

Hammer: Originally employed as a weapon of war, the hammer nowadays is used as a kind of divining rod to locate expensive parts not far from the object we are trying to hit.

Electric Hand Drill: Normally used for spinning pop rivets in their holes until you die of old age. Also works great for

drilling mounting holes in fenders just above the brake line that goes to the rear wheel.

Pliers: Used to round off bolt heads.

Hacksaw: One of a family of cutting tools built on the Ouija board principle. It transforms energy into a crooked, unpredictable motion, and the more you attempt to influence its course, the more dismal your future becomes.

Vise-grips: Used to round off bolt heads. If nothing else is available, they can also be used to transfer intense welding heat to the palm of your hand.

Drill Press: A tall, upright machine useful for suddenly snatching flat metal bar stock out of your hands so that it smacks you in the chest and flings your drink across the room, splattering it against that freshly painted part you were drying.

Wire Wheel: Cleans rust off old bolts and then throws the bolts somewhere under the workbench with the speed of light. Also removes fingerprint whorls and hard-earned guitar calluses in about the time it takes you to say "ouch."

Hydraulic Floor Jack: Used for lowering a vehicle to the ground after you have installed your new front disc brake setup, trapping the jack handle firmly under the front fender.

8-foot Long Douglas Fir 2 x 4: Used for levering a vehicle upward off a hydraulic jack.

Tweezers: A tool for removing wood splinters.

Telephone: Tool for calling your friend to see if he has another hydraulic floor jack.

Snap-On Gasket Scraper: Theoretically useful as a sandwich tool for spreading mayonnaise. Used mainly for getting dog poo off your boot.

Mechanic's Knife: Used to open and slice through the contents of cardboard cartons delivered to your front door. Works particularly well on boxes containing seats and other soft parts. Also, will slice hands and fingers quickly.

Timing Light: A stroboscopic instrument for illuminating grease build-

-up.

2-ton Hydraulic Engine Hoist: A handy tool for testing the tensile strength of ground straps and brake lines you may have forgotten to disconnect.

Aviation Metal Snips: See hacksaw.

Phillips Screwdriver: Normally used to stab the lids of old-style paper and tin oil cans and splash oil onto your shirt. Can also be used, as the name implies, to round off Phillips screw heads.

Air Compressor: A machine that takes energy produced in a coal burning power plant 200 miles away and transforms it into compressed air that travels by hose to a pneumatic impact wrench that grips rusty bolts last tightened 50 years ago and rounds them off.

Pry Bar: A tool used to crumple the metal surrounding that clip or bracket you needed in order to replace a 50-cent part.

Hose Cutter: A tool use to cut hoses 1/2 inch too short.

From *Milan Flyers Gazette*
Milan RC Flyers
David Gell, editor
Ann Arbor MI

**Re-Print from AMA
Newsletter, June 2002
All rights reserved ©**

FEBRUARY DIRECTOR'S MEETING

The next directors meeting will be, Tuesday, February 2 at 7:30 PM, at the Sudbury Goodnow Library.



CRRC 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 2002 Calendar, please come to the Board Meeting and bring it up. For an up-to-date list of area events check:

http://www.charlesriverrc.org/calendar_events.htm.

DATE	EVENT	WHERE	CONTACT	EMAIL
March 8 2003	CRRC Indoors Flying			bruceden@attbi.com
August 9,10 2003	CRRC Soar-In	Davis Field	Anker Berg-Sonne	anker@rcn.com

Flying Aces Stealth Sq.

*Indoor Contest Schedule. Winter 2003.
Penn Brook School. Georgetown, MA
Feb 23rd & March 16th.*

EVENTS

From 9am - 4pm

FAC Scale
FAC Peanut
Dime Scale
Modern Civil & Golden Age
Combined
NoCal
WWI Peanut - -Mass Launch
WWII - Mass Launch.

Directions:

From Rt.95

Take the Georgetown / Rt.
133 exit -towards
Georgetown.
After 1.5 miles turn Left onto
Elm Street.
After 0.3 miles turn Left onto
Penn Brook Drive.
Penn Brook School is 0.2
miles on your Left.

From the West on Rt. 133 or 97.
At Georgetown Center take
Rt.133 East.

After **0.5** miles turn Right
onto Elm Street.
After 0.3 miles turn Left onto
Penn Brook Drive,
Penn Brook School is 0.2
miles on your Left.

ALSO NOTE: Shriners Contest

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

Spring Auction CAPE ANN R-C MODEL CLUB

DATE: MARCH 2, 2003

WHERE: VFW HALL, ROWLEY MA

WHEN: SETUP AND PREVIEW NOON
TO 1:00 PM

TERMS: 10% OF SELLING PRICE TO
SELLER. NO EXTRA COST TO BUYER.

NO CHARGE UNLESS ITEM IS SOLD!
ANYTHING RJC WILL BE SOLD -
AIRCRAFT OF ALL TYPES PREFERRED

ADMISSION IS FREE
50/50 RAFFLE - REFRESHMENTS -
GOOD PARKING AND SEATING
AUCTIONEER: STEVE GILBERT

THIS WILL A FAST-MOVING AND FUN
AUCTION. HELIS, JETS, FIGHTERS,
TRAINERS WILL BE SOLD. SMALL
ITEMS WILL BE GROUPED TOGETHER
TO MEET 55.00 MINIMUM PRICING.

<http://www.carmac.org/Auction-2003.pdf>

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

The Northern Connecticut Radio Control Club

Will hold their annual auction and
swap shop on Sunday, February 9,
2003 in Vernon, CT. The event
starts at 9 am. Information is on the
club web site:

<http://www.ncrcc.org/auctions/2003/auction.htm#DIRECTIONS>



THE CHARLES RIVER RADIO CONTROLLERS, INC

2003 MEMBERSHIP APPLICATION

AMA Charter 339

THIS FORM EXPIRES ON MARCH 1ST 2003!

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

REMEMBER THE MARCH 1ST DEADLINE!	Renewal before March 1st
OPEN Member	\$30.00
JUNIOR member, (under 19 before 7-1)	\$15.00
SENIOR member, (if age 60 before 7-1)	\$20.00
full time STUDENT	\$15.00
Family member additional to OPEN membership	\$15.00
There will be a \$5.00 penalty for joining AFTER March 1st	

I'M INTERESTED IN THE FOLLOWING:

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

- ☐ ELECTRICS
☐ HELICOPTERS
☐ SCALE

- ☐ PATTERN
☐ RACING
☐ GIANT SCALE

☐ OTHER (specify) _____

FREQUENCY DATABASE

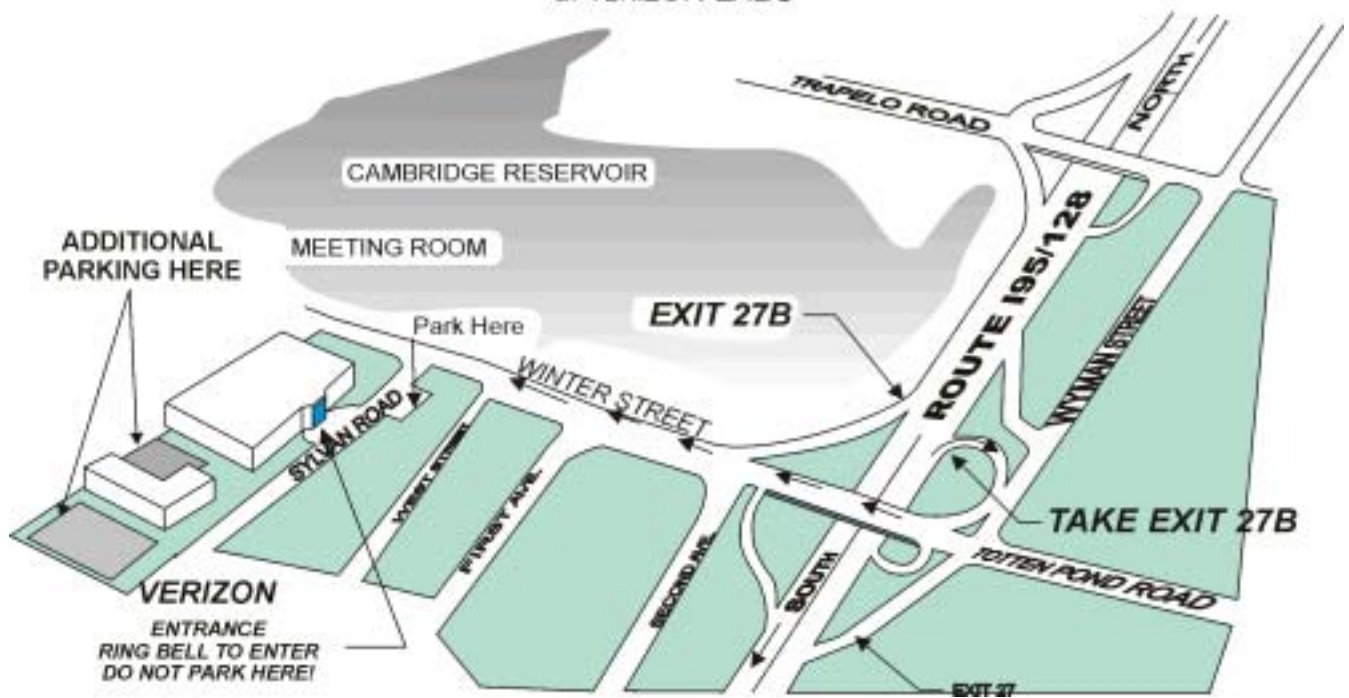
This database is made to help you select future radios that have the fewest conflicts with ones used by others at the flying field. Put the number of transmitters that you own for each frequency. **Add D if it is your primary frequency at Davis and M if it is your primary at Medfield.**

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