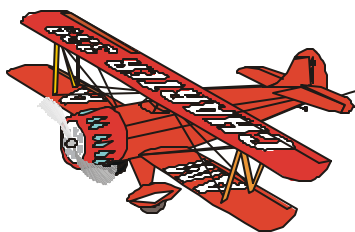


NEWSLETTER OF THE CHARLES RIVER RADIO CONTROLLERS, INC



CRRC FLIGHT-LOG

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

AMA CHARTER 339

February 2000

Volume 36 Number 2

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FEBRUARY MEETING

7:30 PM

FEBRUARY 16 at
GTE LABORATORY

Featuring:

FLIGHT SIMULATOR DEMOS AND REVIEWS

This should be a great opportunity to see R/C flight simulators in action before you buy.

Recently, a new Navy pilot who scored a perfect score on his first training flight, attributed his success to flight sims. Now the Navy is purchasing many of these to save the cost of full scale simulators.

February Raffle

1. Boomerang EPP Sloper
2. Gallon of 10% fuel
3. Servo savers

RAFFLE INFORMATION:

Raffle tickets are \$1.00 each and 3 for \$2.00. To encourage people identifying themselves, a free ticket is given to anyone wearing a nametag. An extra ticket is also given to anyone who brings in a Show-and- Tell.



TREASURER'S REPORT

REPORT DATE 01/23/00

STARTING BALANCE

Checkbook Balance (after check 1102)	\$696.02
Savings Account Balance	\$4311.12
Cash	\$32.26

Total Starting Balance \$5032.03

INCOME

Raffle	\$132.00
Dues	\$1455.00
Savings Account Interest	\$9.96

Total Income \$1596.41

EXPENSES

ITEM	CHECK	RECIPIENT	
Bank Maintenance Charge for Nov			\$9.00
Newsletter	1105	K Antonellis	\$88.96
Sudbury Lib	1103	D williamson	\$100.00
Davis Field	1104	D williamson	\$200.00
Plaques	1106	J Weigel	\$52.50

Total Expenses \$449.47

TREASURY BALANCE \$6185.47

Checkbook Balance (after check 1106)	\$1842.09
Savings Account Balance	\$4,311.12
Cash	\$32.26

Total Ending Balance \$6185.47

Signature Ed Devereaux

From the Sudbury Library

"Please thank the members of the Charles River Radio Controllers for their generous gifts to the Goodnow Library. The donation to the friends and the subscription to Model Aviation will be put to good use. We are glad that we were able to renew our association with your group.
Sincerely, William R. Talentino, Director

PRESIDENT'S COLUMN

Pete Young

Wow! Brrr! After a warm start to the New Year, Mother Nature's really serious about keeping the outside temperatures down! But the hardier fliers are not to be deterred - Some of the recent sunny Saturdays and Sundays at Davis Field have seen big turnouts so it's just a matter of picking the right kind of airplane for the conditions - so keep those planes charged and ready to go for those calm and sunny days -

An Urgent Reminder: it's time to renew your AMA and CRRC memberships for the year. If you can make the February 16th club meeting, Dick Williamson has both AMA and CRRC license renewal forms so he offers "one stop shopping" where you can get all squared away for the year. There is a March 1st deadline for the club to submit paid-up club rosters to the AMA to renew our club charter, so please take care of this in the next few days. If you cannot attend the club meeting, then by all means mail in your membership renewal paperwork to Dick Williamson, P.O. Box 398, Lincoln MA 01773. Speaking of the Feb. 16th meeting - this month marks the return of "Flight Simulator Night" which was so popular last year at this time. Here's your chance to see and compare different flight simulator computer programs, and to talk to other club members about the strong points (as well as some of the not-so-strong points!) of individual flight sims. One thing's for sure - when the snow and sleet is falling outside and the wind is howling, it's sure fun to practice your flying skills with a high fidelity flight simulator!

This is also the season for wintertime club auctions in our area -- the scheduled events that we know about are listed elsewhere in the newsletter, so check the dates, times, and locations for an auction near you -- There are some terrific buys possible if you choose wisely so venture out - you never know what "finds" you may be able to discover!

And lastly - if you haven't done so recently, check out the CRRC website <www.charlesriverrc.org> and see and marvel at all the features and continuous improvements that reside there. And we all owe a big Thank You to Jose Bruzual and Joel Foner for upgrading the website to a faster and more capable server thanks to them, the CRRC website is one of the best modeling sites on the entire WWW, in my opinion! So until next time - use the cold weather season to get some planes built and we'll see you at the flying fields starting in the early Spring -- !

General Meeting January 19, 2000

Young opened the meeting at 7:40 PM.

The Secretary and Treasurer reports were presented and accepted as printed in the newsletter.

Field reports were as follows: No one had been at Medfield since, 1-1-00 when it was in perfect condition. Davis is fine and there were no reports for Callahan.

Bill Dimpfl presented instructor of the year award to **Jon Leehey**. He also presented the Bob Fish Memorial award to **Bill Martin**. This award is presented to the non-board member who goes above and beyond the call of duty to help the club.

A special award was given to **Fritz Bien** for outstanding service. A wire sculpture was given to Fritz as well as a lifetime membership to CRRC. Thanks to **Bill Dimpfl** who made the sculpture, **Dick Williamson**, who made the walnut base and **Pete Young** whom provided the brass plate.

Christian Dimpfl earned his wings and was presented with same. Congrats to Christian !!

The raffle winners were as follows:

Christian Dimpfl won the electric Razor,

Joel Foner won the CG machine,

Gene Rozea won the gallon of fuel.

Show and Tell

Christian Dimpfl showed his Zagi 400 which was what he flew at the Frozen finger Fun-Fly. I believe this may have been what he soloed with also.

Bill Dimpfl had an electric Cessna 119 Bird dog. It was 5.5 ounces ready to go. He was able to taxi for us at the room!!

Pete Young showed his new Laser cut Dragonfly. He also brought in a Sophia turbine engine, which develops 19 lbs. of thrust!!

Tom Bauer has a Thermal South Wind 99" sailplane. He wasn't all that impressed with the kit but it looked fine to me. We will see how it flies.

Abbott Lahti had another small antique Sterling kit for us to see. I think it was a Fokker d-7.

Jim Sturdy had a Zagi and it is guided with an Airtronics Radiant computer radio of which he is very happy with.

Professor **Mark Drela** from MIT's Aero-Astro Department, gave an amazing presentation on the aerodynamic and control challenges involved in the

design, construction, and flight of the Lincoln Laboratory Micro Air Vehicle. Thanks To Mark for his presentation!!

Next Directors meeting

The next directors meeting will be at the Natick library, downtown Natick on Tuesday, February 22, 2000. The Board Meetings are held the Tuesday after the General Meeting. This is a change for past years in which the BOD meetings were on the 4th Tuesday of the month.

CRRC BUILDING AND FLIGHT INSTRUCTORS

Below is our list for qualified and willing instructors. Power is flown at the Bill Martin Flying Field in Medfield. Soaring is at Davis Farm, on Rt. 117 in Sudbury and Callahan State Park in Framingham. If you are have a new plane that you want to have checked out before going to the field, call any of the building instructors.

POWER

INSTRUCTOR	TOWN	TELEPHONE
Neil Kaufman (Chief)	Sudbury	978 443-9647
Bob Scott	Roslindale	617 323 6600
Dan Ross	Natick	508 655-8396
Larry Copeland	E. Walpole	508 668-0448
Ken Antonellis	Natick	508 653-4513
Jon Leehey	Wayland	508 358 5721
Ruane Crummett	Wayland	508 655-2234
Fritz Bien	Concord	508-369-1720

SOARING

Dick Williamson	Sudbury	978 443-8549
Dave Walter	Hudson	978-562-5400
Bruce Schneider	Hudson	978-562-9900
Lincoln Ross	Waltham	781-891-0332
John Nilsson	Clinton	508-368-7136
Peter Young	Belmont	617 484 0640
Fritz Bien	Concord	978-369-1720

BUILDING

Ruane Crummett	Wayland	508-655-2234
John Weigel	Natick	508 655-2138
Bill Dimpfl	Concord	978 369-1750
Pete Young	Brookline	617 484-0640
Fritz Bien	Concord	978 369-1720

ELECTRICS

Tom Bauer	Wellesley	781-235-7344
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If any new fliers want "buddy box" support, call **Dick Williamson** to arrange to have a compatible buddy box the match that flier's radio.

THE BUDDY BOX PROGRAM

It has been said that most people who enter into the RC aircraft hobby amass a total of less than 20 sec. of flying time before they quit the hobby. In most cases, that 20-sec. occurs between the launch and crash of their uninstructed first flight! Staring at a rekkited pile of balsa and Monokote, most such beginners never get back in the air.

Moral for beginners: Get instruction.

Moral for CRRC members: Provide instruction so we can share the satisfaction of our hobby with others.

CRRC does have an active instruction program and we urge beginners to take advantage of it. Crashes can often be avoided if the instructor and student have a transmitter and buddy box hooked together. That way, the instructor can instantaneously take control when the situation warrants. This instant response is especially valuable with fast flying gas-powered planes. In order to encourage the use of buddy boxes, the club will do the following:

- CRRC will provide each student with a buddy box and cord compatible with his transmitter (4-channel radios only). If we don't have an appropriate buddy box in the inventory, the club will buy one for the student.
- The student will pay a deposit for the buddy box and cord. The deposit will be no more than the \$25 to \$45 cost of the appropriate buddy box. The student, not the instructor, keeps possession of the buddy box and cord and brings them to the field along with the compatible transmitter.
- CRRC will refund the deposit when the student returns the buddy box and cord.

SOLUTION TO USING ALL OF OUR AVAILABLE CHANNELS *Fritz*

There has been some discussion on the use of Channels 20 and 21 at our fields and the reasons for not using these channels. This note is to give some historic perspective to the rule and why I think that the problem should be reexamined.

The genesis of the ban on these frequencies was when Walt Good and the AMA was able to convince the FCC to give us all these frequencies spaced 20 kHz apart starting in 1991. We were allowed to use the upper portion of the band with spacing of 40 kHz until radios got good enough for us to use the rest of the band. In

about 1988 it was found that when a Channel 20 radio was turned on at the Taylor Drop-Zone field, there were radio glitches causing havoc to many of the single conversion receivers at the field. We learned that these two channels combined with the audio portion from Channel 4 TV to form 455 kHz sub-harmonic that caused the so-called 2IM problem. The 2IM problem was also created when two transmitters, 23 Channels apart, were turned on at the same time. The sub-harmonic of 460 kHz would likewise affect certain receivers. Since several of these radios that got shot down were supposed to be "1991 approved", our club voted to just ban the use of Channels 20 and 21 until radios became better. This problem was reported throughout the U.S., so we were not alone in the solution.

In 1990, Hitec/RCD introduced a cheap dual-conversion after-market receiver, which was immune to the 3IM problem. Many of us serious flyers moved to this solution, and abandoned the Futaba Attack R114 receivers, so popular at the time. At our field, anyway, all of the radios that were affected by the 3IM from Ch20/21/TV4 were Futaba. This perhaps showed the great popularity of that radio at the time. The 3IM problem did not seem to affect the JR single conversion sets, nor the ACE radios of the time. Since there were still a large number of our club flying these Attack-AM sets, the Ch20/21 ban remained in place, and a clothespin system to prevent pins 23 channels apart was devised so that no two radios with that spacing would be turned on at the same time.

We are now in year 2000, a new century. We have forgotten about the 23 channel separation problem, and no longer check to make sure that no radio 23

channels from ours is in operation before we switch on. The number of old wide-band single conversion receivers have faded into the basements, or perhaps junked when they underwent unexplained crashes. We no longer notice radio problems due to 2IM. If two transmitters 23 Channels (460 kHz) apart is not affecting our radio, then why should a single radio on Ch20/21 be banned? What is the solution?

New single conversion receivers are still being sold, such as the FMA Tetra and Hitec Focus 3AM. While these new radios are supposed to be tight enough to withstand the 2IM problem, some of us are still worrying.

SOLUTION:

1. If you are flying a single conversion radio, make a frequency pin to cover the Channel 20 and 21 slots, and check to make sure no two transmitters are spaced 23 channels apart on the board. We know from experience that those who do not have interference problems will not be checking.
2. Get an after-market post-1991 receiver. They're cheap compared to the cost of a plane.
3. Everybody run out and buy radios on these channels and leave my channels alone. **Fritz Bien**

UPCOMING EVENTS



February 13 Lazy Loopers Auction Franklin Elks Hall Noon <http://www.ultranet.com/~llfc/>
February 13 107th R/C Fyers Auction VFW Post 2346 Saugus
February 13 North Connecticut R/C Auction and Swap Shop Vernon Middle School, Vernon CT.
February 16 Club Meeting
February 19 Indoor flying at Sudbury High School 1:00 PM TO 5:00PM
February 22 CRRC Board of Directors Meeting
February 26 Indoors Contest Northern Essex Community College Haverhill
February 25, 26, 27 WRAMS Show White Plains New York
March 4 MIT Indoor Flying
March 4 Cape Ann R/C Auction Rowley VFW Hall Rowley, MA
March 15 CRRC General Meeting.
March 18 Indoors Contest Northern Essex Community College Haverhill
March 18-19 Maine R/C Flight Show Fairfield Maine, contact Roland Woodworth 207 453 9319
March 19 Central Mass R/C Auction K of C hall No Oxford starts at 1:00 pm viewing at noon
March 21(?) CRRC Board of Directors Meeting
April Fool's Day MIT Indoor Flying
April 14 Indoor Flying Sudbury High School 6:00PM to 10:00PM
July 1 and 2 Rudder, elevator and spoiler contest at Davis Field
August 12 and 13 CRRC SOAR-IN Davis Field



THE CHARLES RIVER RADIO CONTROLLERS, INC

AMA Charter 339

2000 MEMBERSHIP APPLICATION

Name _____ AMA No. _____

Street _____ Birth Date (AMA reqmnt) _____

Town _____ State _____ Zip _____ Tel. () _____

e-mail _____

To receive membership card and field pass, bring this application to a club meeting, or mail **with a copy of your Year 2000 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

\$30.00 OPEN Renewal by March 1st

\$35.00 OPEN March 1st through December.

\$20.00 SENIOR member, (if age 60 before 7-1)

\$15.00 JUNIOR member, (under 19 before 7-1)

\$15.00 full time STUDENT

\$15.00 for Family member additional to OPEN membership

I WOULD LIKE TO PARTICIPATE IN:

☐ CONTESTS ☐ FUNFLYS

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

I'M INTERESTED IN THE FOLLOWING:

☐ TRAINERS/SPORT PLANES

☐ ELECTRICS

☐ HELICOPTERS

☐ GLIDERS

☐ PATTERN

☐ RACING

☐ SCALE/SEMI-SCALE/QTR SCALE

☐ INDOOR

☐ SEA/FLOAT-PLANES

☐ 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 Farm, 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 will 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 GTE LABORATORIES



CRRC Flight Log
Ken Antonellis/ Editor
14 Winslow Road
Natick MA 01760

**MEETING FEBRUARY 16
FLIGHT SIMULATOR NIGHT
DEMO AND REVIEW**

**2000 MEMBERSHIP APPLICATION ENCLOSED
(LAST CHANCE TO RENEW AT DISCOUNT)**