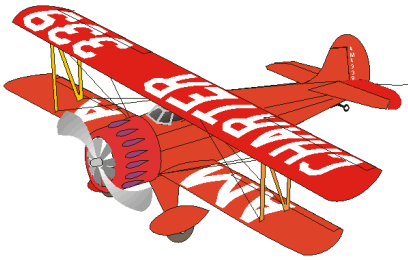
NEWSLETTER OF THE CHARLES RIVER RADIO CONTROLLERS, INC



CRRC FLIGHT-LOG

http://www.charlesriverrc.org/

AMA CHARTER 339 **April 2003** **VOLUME 40 NUMBER 4**

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GENERAL MEETING

Wednesday
April 16th7:30
PM

The Daedalus Human-Powered Aircraft

Speaker: Mark Drela

Special Note!!!

Spring clean up at Medfield postponed till April 12th

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APRIL RAFFLE

1st Prize *

Your choice of a WWII park flyer: Curtis P-40B Warhawk or a Lockheed P-38 Lightning. These are from the "RoadKill" series of profile electric kits by DJAerotech. Complete with motor(s) and prop(s). The Lightning is a twin!

2nd Prize *

MicroSizer - Complete miniature R/C car system.

3rd Prize *

Gallon 'o Fuel or Selection of Cool Tools.

***Show and Tell prize will be A special useful tool!**

--Jon Leehey
Raffle Chairman

Clevises –

(A note to the unwary!)

Last summer I lost elevator control of an ARF trainer while flying at Medfield. The plane began to not respond normally to elevator commands, and pitch control eventually disappeared entirely. I wasn't able to return the plane to the flying field, and it eventually ended up in the Big Swamp where it lay for several months before being found by a very helpful Medfield onlooker.

The root cause of this mishap was the elevator's nylon clevis had stripped out and thus, all elevator control was lost. The plane was on its third flying season, by the way. So one lesson is -- replace nylon clevises with metal clevises, especially on elevators which see extremely high air loads.

This past week I was flying a new ARF trainer at Medfield. On this plane I had replaced the kit's plastic clevises with DuBro metal clevises. On its first flight, the plane started requiring more and more nose-up trim, the very reverse of how a gas airplane acts as it burns up fuel. A little alarm went off in my head triggered by memories of last summer's incident described above. I immediately chopped throttle and came back to land this after less than 2 minutes of flight time.

On final approach, the plane started pitching over more and more despite my holding full back stick and back trim, and although I thought for a moment the plane was going to dive straight in, I was able to bring up the nose sufficiently to make a hard landing with minimal damage - a sheared off landing gear plate. I was very lucky the plane wasn't totaled.

The root cause of this incident was the DuBro metal clevis had stripped the threads off the kit's threaded rod linkage, a variation of last summer's problem. I recalled that I had forced the DuBro clevis on but as I had done this in the past with no problems noted, I didn't think anything of it.

It turns out that most ARF trainers these days have 2mm-threaded rod linkages and matching plastic clevises. If you replace those plastic clevises with DuBro or Sullivan metal clevises, you'll have a mismatch between the metal clevises' 2-56 threads and the kit's 2 mm threaded rods. By the way, metal 2-mm clevises aren't a common hobby shop item - those are either 2-56 or 4-40.

The remedies are easy. You can solder on a 2-56 (or 4-40) threaded rod, using silver solder and solder couplers - not electrical solder! Or if you don't like to solder, you can replace the 2-mm linkage stock completely. Simply replacing the original plastic clevis with a metal one isn't a good solution.

--Pete Young

MEMERSHIP 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	**136**	**10***	**146**

*The 10 new members include 6 genuinely new members and 4 members who rejoined after a lapse of a year or more. We are still waiting for 54 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

TREASURER'S REPORT

Report Date 3/31/03

Starting Balance 2/28/03	
Checking (after #1298)	3,794.57
Savings	4,586.52
Cash	25.00
Total Starting	**8,406.09**
Income	
Dues	1,230.00
Indoor Flying	170.00
Raffle	277.00
Interest on Savings (March)	3.86
Total Income	**1,680.86**
Expenses	
AMA – HLG, RES Sanctions #1299	40.00
Richard Williamson – Davis Field Fees #1300	500.00
Mike Cormier – March Newsletter #1301	50.41
Monthly Bank Fee (March)	11.00
Total Expenses	**601.41**
Ending Balances	
Checking (after #1301)	4,870.16
Savings	4,590.38
Cash	25.00
Total Ending 3/31/02	**9,485.54**

Signature: Miner Crary

PRESIDENT'S Message

How can I learn to fly a plane?

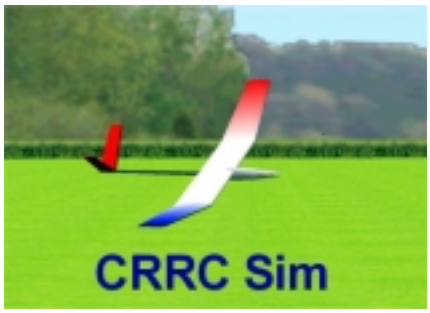
Step by Step

Here is a guide that I put together to help future pilots go through to the process of "Learning to Fly".

One of the best ways to start is by contacting a flying Club in your area, like CRRC (Charles River Radio Controllers). You are more than welcome to come to our monthly meeting.

http://www.charlesriverrc.org/

Spending some time playing with a flight simulator will really get you going. If you have a computer and Internet access you can download CRRC Sim for free.



CRRCsim, the Charles River RC flight simulator. (links below.)
http://groups.yahoo.com/group/crrc/files/crrcsim/
http://groups.yahoo.com/group/crrc/files/crrcsim/

Other options are RealFlight G2. I think this is a very good program; very realistic! If you can afford it, this is the way to go!

http://www.realflight.com

Cockpit Master "backyard" is good too. You may want to visit each web-site and check out all the characteristics and different features.

http://www.cockpitmaster.com/

I know friends who have been training on a flight simulator for some time. It shortens the learning process a good percentage. Look at it this way... you can crash an airplane, as many times you want with a flight simulator without any repairs.

Now is the time to become a member of AMA (Academy of Model Aeronautics).

AMA is the world's largest sport aviation organization, representing a membership of more than 170,000 from every walk of life, income level, and age group.

http://modelaircraft.org/templates/ama/

You can join any R/C Club in your area. Come and visit CRRC.

http://www.charlesriverrc.org/

We have an Instructor Program to get you going. It is also a good idea to come to one of our flying fields and see other pilots fly their planes. This way you may get a good idea of where to start.

Some handy links for simulators:
http://www.realflight.com
http://www.cockpitmaster.com/
http://www.hobby-lobby.com/howto.htm

--Derick Veliz

Club President Derick Veliz slope soaring on Deer Island in Boston Harbor.

Whoa!

-- It looks hungry, nothing to eat in the sky, so it turns on its master perhaps?

MARCH GENERAL MEETING

Secretary's Report: March 2003 General Meeting

Derek Veliz – opened the business meeting at 7:40pm.

Secretary's report was approved as printed in newsletter.

Treasurer's report was approved as printed in newsletter. (1 opposed.)

Field Reports

Medfield – The field is very muddy and the road is impassable for small cars. Ken suggests that members wait until things dry out in April to fly.

Davis – Fritz had his winch out recently, lots of pilots out. The parking situation is good.

Teamworks – No "carnage" last time out, about 15 pilots.

Old Business

Membership:

- 140 members so far in 2003 (8 new.)
- 194 peak members in 2002.

New Business

Next BOD meeting is March 25th. Mike Ducros and Pete Lofgren volunteered to attend as members-at-large.

April 13 is the next indoor fly at Teamworks.

Dick Williamson – reports that Davis will be reserved for Lacrosse 7 days a week as soon as the field dries. The club is investigating alternate sites for glider/electric flying.

Mitch Buckley – passed out flyers for the New England Scale Masters Qualifier to be held on June 21-22.

Pete Lofgren – is looking for ideas for the new club T-shirt design.

Derek – received and email from Paul Manning (sp?) about an upcoming Air & Space day event on June 21 in Tewksbury, looking for display models to show.

Ken – asked about maintenance of the club winch. The Wednesday night group decided to keep their winch a personal unit but will continue bringing it out to Davis.

Raffle

Hitec 555 flight pack – Tomer Jackman.

Herr rubber power model – John Nilsson.

Dead-Center hole locator – Jesse Hefter.

Show and Tell – Sears clamp set – Bob Doppler.

New Pilots

-None-

Guests

-None-

Derick closed the business meeting at 8:15pm.

Show And Tell

Winter Projects Night!

Tom Bauer – SIG Tiger rubber powered model. 32g covered with Japanese tissue and dope.

Tomer Jackman – Molded pod for a DLG project.

Ron Weissman – "Speedy" electric plane.

Peter Lofgren – An Ace Simple 400. 12.5 oz, 18-20 oz all up flying weight with battery.

Bob Doppler – An Omega 1.5 electric power glider.

David Jones – A Tower Kaos.

Mike Ducros – A Goldberg Electra.

John Plum - A QB .25

Ed Omiccioli – SIG Spacewalker powered by an O.S. FS-120, 16 lb. all up with Stits (sp?) covering.

Jesse Hefter – A GP Firebat foamy electric jet.

Fritz Bien – Electric powered Wright Flyer including working wing warping.

Derek Veliz – An EPP combat flying wing slope-soarer.

--Jeremy Harkin

APRIL DIRECTOR'S MEETING

The next directors meeting will be, Tuesday, April 22nd 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]

CRRC CALENDAR OF EVENTS

The calendar of events for the year was determined in the January Board of Director's meeting. This calendar will be updated monthly, as things firm up. 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.charlesriverrc.org/calendar_events.htm.

April	**Sponsor / Event / Location,**
Apr 13 (Sun)	***CRRC*** Indoor RC Fun-Fly at Teamworks Northboro (9am-NOON)
Apr 16 (Wed)	***CRRC*** Club meeting at Verizon Waltham
Apr 22 (Tue)	***CRRC*** Board meeting at Sudbury Library
May	
May 21 (Wed)	***CRRC*** Club meeting at Verizon Waltham
May 27 (Tue	***CRRC*** Board meeting at Sudbury Library
June	
Jun 7-8 (Sat-Sun)	Collings Foundation fun-fly in Stow, MA
Jun 18 (Wed)	***CRRC*** Club meeting at Verizon Waltham
Jun 24 (Tue)	***CRRC*** Board meeting at Sudbury Library
July	
Jul 16 (Wed)	***CRRC*** Club meeting at Verizon Waltham
Jul 19 (Sat)	***CRRC*** RES (rudder-elevator-spoilers) sailplane contest at Davis Farm Field *CD: Miner Crary*
Jul 20 (Sun)	***CRRC*** HLG (hand launched glider) contest at Davis Farm Field *CD: Dick Williamson*
Jul 22 (Tue)	***CRRC*** Board meeting at Sudbury Library
August	
Aug 9-10 (Sat-Sun)	***CRRC*** Open Class ESL contest at Davis Farm Field *CD's: TBD...*
Aug 20 (Wed)	***CRRC*** Club meeting at Verizon Waltham
Aug 26 (Tue)	***CRRC*** Board meeting at Sudbury Library
September	
Sep 17 (Wed)	***CRRC*** Club meeting at Verizon Waltham
Sep 20 (Sat), Sep 21 rain date	Woodson Farm Festival in Amesbury, MA *CD's: TBD...*
Sep 23 (Tue)	***CRRC*** Board meeting at Sudbury Library
October	
Oct 4 (Sat) Oct 5 rain date	***CRRC*** Electric Fun-Fly at Bill Martin Field in Medfield *CD: TBD...*
Oct 15 (Wed)	***CRRC*** Club meeting at Verizon Waltham
Oct 21 (Tue)	***CRRC*** Board meeting at Sudbury Library
November	
Nov 9 (tentative)	***CRRC*** Auction
Nov 19 (Wed)	***CRRC*** Club meeting at Verizon Waltham
Nov 25 (Tue)	***CRRC*** Board meeting at Sudbury Library
December	
Dec 16 (Tue)	***CRRC*** Board meeting at Sudbury Library
Dec 17 (Wed)	***CRRC*** 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

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

❑ Via the US Mail

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

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** ❑ **ELECTRICS** ❑ **PATTERN**
❑ **GLIDERS** ❑ **HELICOPTERS** ❑ **RACING**
❑ **INDOOR/PARK FLYERS** ❑ **SCALE** ❑ **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>_____

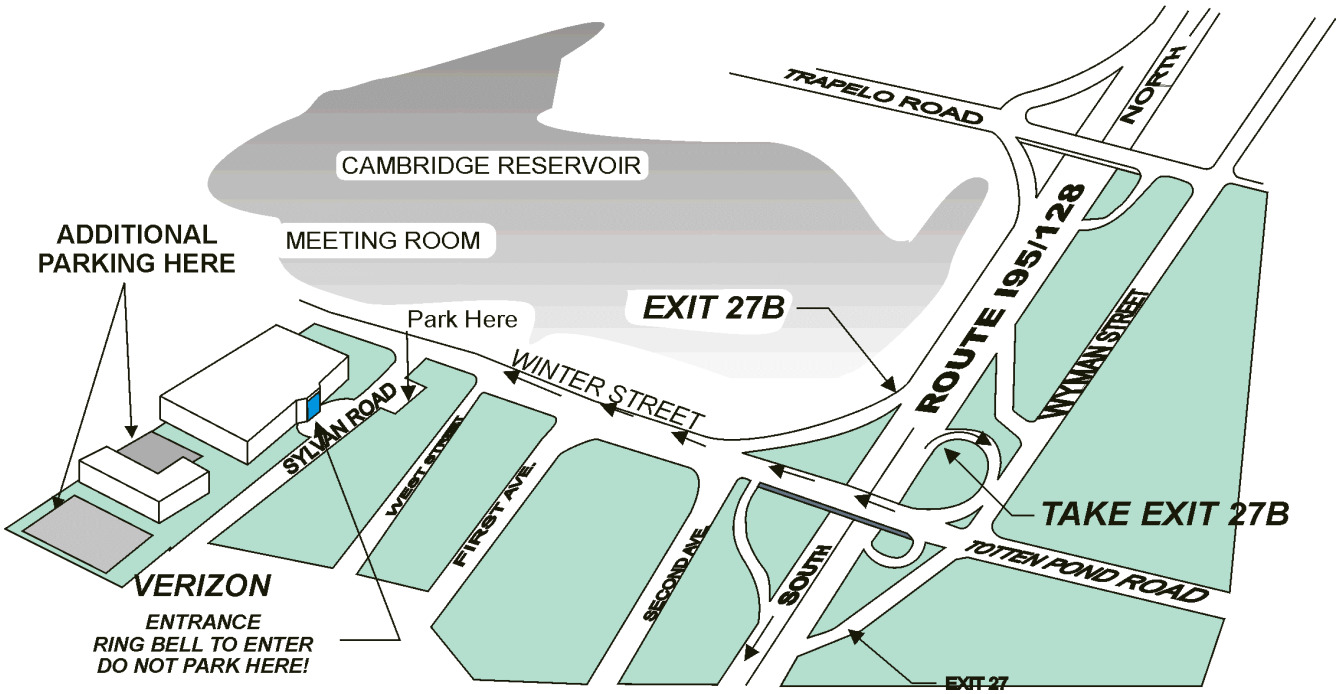
15>_____ 20>_____25>_____30> _____ 35> _____ 40> _____ 45> _____ 50>_____ 55>_____ 60>_____

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