

NEWSLETTER OF THE CHARLES RIVER RADIO CONTROLLERS, INC



CRRC FLIGHT-LOG

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

AMA CHARTER 339

July 2002

VOLUME 39 NUMBER 7

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781 235-7344

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508 653-3560

jfoner@fonerassoc.com

GENERAL MEETING

Wednesday July

17th 7:30 PM

VERIZON

LABORATORIES

SEE MAP ON COVER

EVENT:

PAPER AIRPLANE CONTEST!

Great Awards!
Intense Competition!

This year we will have a surprise airplane, chosen by Derick, to be built and flown on the spot at the meeting. This way nobody can practice beforehand.

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JULY RAFFLE



1st Prize Drill Press

- 1/2" chuck capacity
- Table tilts 45° left or right
- Depth adjustment gauge
- Motor: 1/3 HP, 120V, 60 Hz
- Five speeds
- Throat depth 4"
- Table size: 6-5/8" x 6-3/8"

2nd Prize Choice of:

Gallon of 10% Premium Nitro fuel,

3rd Prize Choice of a Cool Tool

(Including, but not limited to):

11" Easy Sander Bar, Razor Plane, Balsa Stripper, 4" Bench Vise, Hemostat, Covering Iron Thermometer, 100 #11 Knife Blades, X-Acto Needle files, or a Peck Polymers ROG FF-Kit

One prize awarded from each category. Show and Tell prize will be selection from Cool Tools.

Tickets are \$1.- each or 3/\$2.-, a free ticket for a name-tag and a free ticket for a Show-and-tell.

TREASURER'S REPORT

Report Date **6/30/02**

Starting Balance	5/31/02
Checking (after #1256)	1,142.51
Savings	4,542.64
Cash	25.00
Total Starting	\$5,710.15

Income	
Dues	\$195.00
Raffle	107.00
Interest - May	4.67
Total Income	\$306.67

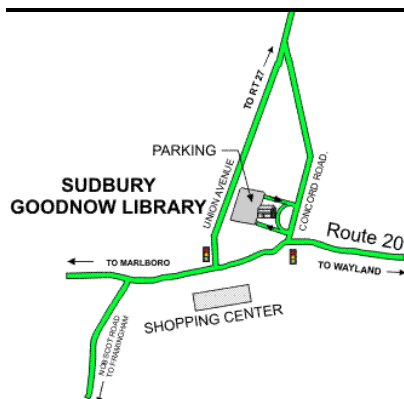
Expenses	
Goodnow Library – #1257	30.00
Fritz Bien	
- Newsletter #1258	102.45
Bank Fee (June)	9.00
Total Expenses	\$141.45

Ending Balances	
Checking (after #1256)	1,303.06
Savings	4,547.31
Cash	25.00
Total Ending 6/30/02	\$5,875.37

Signature: *Miner Crary*

JULY DIRECTORS MEETING

The next directors meeting will be, Tuesday, July 23rd, at 7:30 PM, at the Sudbury Goodnow Library. Upcoming events will be discussed.



PRESIDENT'S COLUMN

Jon Leehey

I just received the latest CRRC membership list from Dick Williamson and it shows that we have 160 members, 24 of which are new to the club this year. We are striving to beat 174 the peak membership of the last two years.

Some of you might wonder why. Why do we want to be such a large club? Why do we want even more people showing up at Davis field on YOUR frequency? At the most recent BOD meeting, we discussed at length the fact that we have virtually no regular flyers that are teenagers or younger. And we discussed ways of solving this problem. Why is this a problem?

Sure, more members mean more money in membership dues. But that is not the reason. We could just as easily raise the dues slightly to cover our operating expenses. So why do we care if our membership continues to grow?

First, we care because it is important that CRRC be more than just a group of hobbyists practicing their private hobby. We need the support of town residents and state officials in order to keep our fields. We need to show that we are providing a public service to residents and are offering a safe, healthy activity for youngsters.

Second, there is little in this hobby/sport that is more rewarding than teaching new members to build and fly. When your student aces his or her first landing, or their first launch on the winch, it's a very good feeling. Ditto when they show you their first non-ARF.

Third, don't you want to give this gift to others? Do you want to keep this

great hobby a secret? I know I have gotten such enjoyment from flying that I want others to share.

At the BOD meeting, we listed all the reasons that youngsters do not become regular flyers (video games, organized sports and other activities, lack of transportation, lack of interest by parents, etc.) But we also concluded that we should not stop trying. Giving a kid their first flight at an event like the Woodsom Farm Festival (coming up on September 15th) might not result in a new member this year. However, at least some of these kids will remember their first flight and develop the urge to get into this hobby later in life. We also talked about making sure that we get the parents interested. Give them a flight too!

The BOD is considering running ads in the local papers to entice people to stop by the fields and see what is going on. We do this now for contests with some success. So when they are looking for something to do with the kids some weekend, they think of bringing them to the field.

Happy Flying!

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]

JUNE MEETING NOTES

Laurie Hurwitz

Jon Leehey opened the meeting at 7:40 PM.

Secretary's Report approved as written in newsletter.

Treasurer's Report approved as written in newsletter. One opposed.

The attendance book was passed around the meeting. We ask that newcomers say something more than his/her name.

Field coordinator's report:

- Davis: Last weekend, Dick found a tick on himself probably from walking in the high grass at the field.
- Medfield: 3-4 showing up for training Wednesdays. Insects are getting bad.

Old Business:

- Membership:
 - ~160 members so far this year. Most of last year's member's renewed.

New Business:

- Volunteer to attend the BOD meeting for the next two months: **Homer Eckhardt**
- Library is here tonight.
- Family fun-fly on the 2nd. ~30-40 people showed up. Variety of planes, ages. Thanks to Ken for the food!
- RES is coming up July 13-14. Miner is CD'ing the contest. Will have a barbecue at 5:00 PM the 13th. Everyone is welcome.
- Soar-In is coming up August 11-12. CRRC's ESL competition.

- Wing Busters are having a breakfast fun-fly Sunday August 4th in Halifax, MA.
- We will probably be doing the Woodsom Farm Festival.
- Collings Foundation for the September meeting.
- Larry brought more free batteries to the meeting.
- NE Scale Masters is looking for volunteers for the June 28-29 at the Gardener Airport from ~7 to 1:30. Talk to Mitch if you can help.
- Derek is setting up an exposition of his aerial pictures and some planes at the Acton and Concord libraries and the Acton Discovery Children's Museum.
- June 20th: History channel is showing the History of RC. Ken will try to tape it for the club.

New pilots: John Cartisser

New members or guests:

Steve Landy - free flight and RC gliders.

Lyle Whisler - interested in RC, just purchased an LT-40 trainer.

Steve and Brodie Morris - Firebird 2 and looking into electrics.

Darryl Khalil - finishing a Butterfly

Jon Leehey closed the meeting at 8:10.

Raffle:

- Cirrus 2M Sailplane (ARF) - Ed Omiccioli
- Vice - Laurie Hurwitz
- Gallon of Fuel - Harvey Thomasian

Show and Tell:

- **Dave Walter** - Discus launch Exterminator Pro by Denny Mays. Carbon fiber and Kevlar. 10 oz. Fuselage is very thin and he's having problems fitting all of the components.

- **Fritz Bien** - 2 fuselages that are replacements for the Mantis. Sold both to club members for \$110. Bought from Terry Luckenbach in PA.
- **Tracy Clark** - Filip V electric. RG15 airfoil, 55" wingspan. Presented to him by friend of in the club.
- Ron Weissman - Electric Lightning inspired by Derek's.
- Homer Eckhardt - ASW 15 from someone's attic that was given to him. It's been donated to the
- **Mitch Buckley** - AC Master 40 seaplane. OS-50. ARF version built for John Cartisser.
- **Andrew Bennett and Chris Murphy** - IFO trainers rudder/elevator. Rip-stop nylon that attaches with contact cement. The former built, the latter with the kit. Impervious to rocks, gym walls, and even three year olds!
- **Derek Veliz** - ARF Electric glider. ~50 oz. Will go vertical.
- **Warren Chafe** - Reproduction super cyclone engine circa 1940. Reproduced including the box. Designed by Mel Anderson who designed many spark engines of the time. Can run dual ignition on it. Being used for old time contest and antiques.
- **Dick Williamson - Jim Tyrie** gave Dick a Paragon to replace the one that's wing folded at last year's Woodsom Farm Festival. One piece wing that will only fit in the station wagon. Weighs about 80 oz because of an aluminum "joiner that spans about 20 inches.

Show and tell prize:

Mitch Buckley - ROG free flight kit.

CRRRC BUILDING AND FLIGHT INSTRUCTORS

Below 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 as well as Callahan State Park in Framingham. See <http://www.charlesrivercrrc.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
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POWER

Chief Instructor: Ruane Crummett

	Wayland	508-655-2234
Bob Scott	Roslindale	617 323 6600
Pete Young	Belmont	617-484-0648
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
Peter Young	Belmont	617 484 0640
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
Peter Young	Belmont	617 484 0640
Lincoln Ross	Waltham	781-891-0332

HELICOPTERS

Joel Foner	Natick	508-653-3560
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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
Peter Young	Belmont	617 484 0640
Derrick Veliz	Acton	978-266-1739

CRRRC 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)



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 a up-to-date list of area events check http://www.charlesriverrc.org/calendar_events.htm

DATE	EVENT	WHERE	CONTACT	EMAIL
July 12 -22 2002	FAI SCALE World Championships	Tillsonburg Ontario, CA		http://www.2002worldscalechampionships.on.ca/
July 13, 14 2002	CRRC 2002 RES soaring contest	Davis Farm Field (Sudbury)	Miner Crary Dick Williamson	minerc@aol.com
Aug 10-11 2002	CRRC 2002 Open Class soaring contest	Davis Farm Field (Sudbury)	Dave Walter Anker Berg-Sonne	anker@ultranet.com
September 15	Woodsom Farm Festival R/C Demonstration	Amesbury MA	Pete Young	
September 18	General Meeting at the Collings Foundation	Stow MASS		www.collingsfoundation.org
Oct 19 2002	CRRC Electric Fun-Fly	Bill Martin Field (Medfield)	Tom Bauer	tbauer@wellesley.edu
Nov 17 2002	CRRC RC Auction	probably Natick VFW (Natick)		
Jan 1 2003	CRRC Frozen Finger Fun Fly	Bill Martin Field (Medfield)		fritz@spectral.com



Picture by John Nilsson taken at Hanscom Air Show.

Just in Time for the July Paper Airplane Contest...taken from NATURE.com

Laser propels paper plane

Japanese lab launches paper plane with laser beam.
10 June 2002



PHILIP BALL

Fleets of these might one day monitor the climate or volcanoes.

It's the ultimate in classroom one-upmanship: a laser-powered paper plane. The device, devised by researchers in Japan, has just made its maiden flight. Fleets of them might one day buzz around the atmosphere, monitoring climate or volcanic eruptions, the team hopes¹.

Takashi Yabe of the Tokyo Institute of Technology and colleagues launch their paper plane with a blast of light from a commercial laser. The plane takes off into a gracefully curving flight at a speed of around 1.4 meters per second.

The plane can be launched from afar, as long as the laser beam can be focused onto it. It's a one-shot affair - the plane gets an initial impulse from the laser but cannot be propelled again once in flight.

Next, the researchers hope to use the laser to guide the plane's motion. It could blast away pieces of the material on one or other of the wings. Alternatively, the wings could be fashioned from metal alloys that change shape when heated, and the laser used to warm them.

Fuel focus

Yabe's team is revisiting an idea first proposed 30 years ago. In 1972, US engineer Arthur Kantrowitz pointed out that a laser beam focused onto some substance - the 'fuel' - on an aircraft's surface could

produce a jet of gas that would push it forward, just like a normal jet engine.

Then, in 1997, researchers at the US Air Force Research Laboratory in California used a high-power infrared laser to propel a saucer-sized aluminium craft for a few seconds. Laser pulses converted air in an inlet chamber into a high-pressure plasma. The thrust thus created lifted the lightcraft hundreds of feet into the air.

This project was a NASA collaboration to investigate the possibility of using laser propulsion as a low-cost method for launching small satellites.

Yabe and colleagues have more modest aspirations. Their aeroplanes are just a few centimetres across, and are made from a fraction of a gram of folded aluminium foil. The fuel is a coating of an acrylic polymer or a droplet of water that sits on the foil.

The polymer coating provides the most thrust. But the liquid droplet could be replaced from an internal reservoir in the plane to allow subsequent propulsion once in flight.

References

1. Yabe, T. et al. Microairplane propelled by laser driven exotic target. [*Applied Physics Letters*](#), **80**, 4318 - 4320, (2002).

PICTURES FROM THE HANSCOM AIRSHOW

John Nilsson



Tumbling Extra

COME ENJOY A FUN, LOW- PRESSURE CONTEST!

FIFTH ANNUAL CRRC RUDDER ELEVATOR SPOILERS ONLY SOARING CONTEST

When:

Saturday July 13th

Sunday July 14th

Separate contest each day

Where:

Davis Field, Rt. 117

Sudbury, MA

Classes:

Unlimited and 2 meter

Enter both classes: \$10.00/class

Launch Equipment: 12 volt Winches with retrievers

Registration at the Field: 8:00 -9:00am

Pilot's meeting 9:03 AM

First Flight 9:18 AM

CONTEST DIRECTORS:

Miner Crary

14 Griffin Lane

Sudbury, MA 01776

978 443-8209

Minerc@aol.com

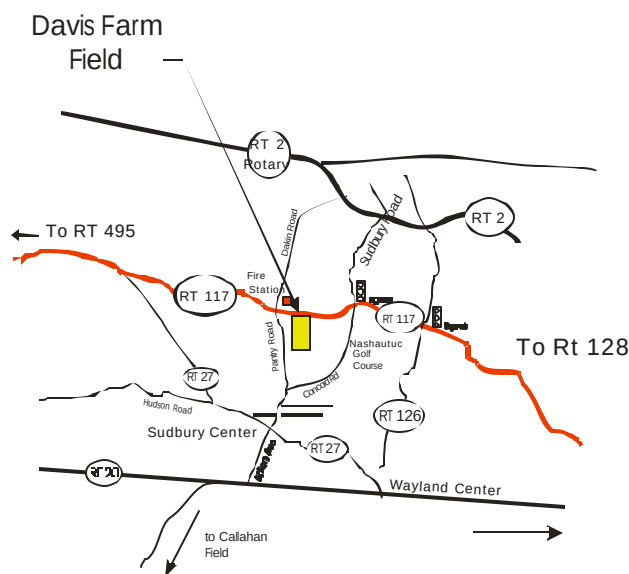
Ruane Crummett

33 Clubhouse Lane

Wayland MA 01778

508 655-2234

crrcplanes@aol.com



COOK-OUT 5:00PM SATURDAY
AFTER THE CONTEST (\$5.00/person)

Downeast Soaring HLG Contest

July 20th 2002

Brown Road Durham Maine

Pilot Meeting at 9:30 first flight around 10:00 am.

Bring extra Batteries and chargers. We are planning on having a fun event.

The contest is on Brown Road in the town of Durham Maine. 6 miles from Freeport the home of LL Bean

Directions from I-95

Exit off exit 20(It's the 2nd Freeport Exit) Go north on route 136. Stay on 136 for 3 ½ miles. Brown road is on the Left. If you drive onto new pavement you went 10 feet to far. Take brown road about 2 miles. You will see a sign for the field. It's on the left. Big open space with a very nice owner.

From route 9

At the intersection of route 9 and 136 In Durham go 4 miles toward Bradbury Mountain State Park. You will see: a Gravel pit on the left. As you go past this about ¼ mile you will go up a slight hill. At the top is Brown Road on the left. Go ¼ mile on the right just past the big farmhouse.

We will have an informal gathering at my home after the contest. Out of towners just show up. Anyone who would like to bring something that would be great.

Any other questions call Jeff @ 207-353-9096

Part of the Downeast Soaring Challenge



29th ANNUAL CRRC SOAR-IN SUDBURY MA



AUGUST 10th and 11th 2002

SITE: DAVIS FARM SUDBURY ROUTE **117** (¼ mi. East of DAKIN RD.)
SANCTIONS: AMA and ESL Sanctioned Contest
CDs: Dave Walter (SAT) and Anker Berg-Sonne (SUN)
AWARDS: EXPERT AND SPORTSMAN THROUGH 3rd.
Special trophy for best Rudder/Elevator/Spoiler finish
FIRST TWO-DAY OVERALL
TASKS: T-1 DURATION with L-4 LANDING BOTH DAYS.
EQUIPMENT: 6-V FORD 3110 on 12 Volts with Electro-Mechanical RETRIEVERS
FOOD: Lunch at the Field. Free to contestants and helpers, \$5.00 for spectators
MAX ENTRY: 3 flyers per Frequency
SCHEDULE: **Check-In** 8:00 AM; **Pilot's Meeting** 9:02 AM; First **Flight** 9:18 AM
FEES: PRE-PAID REGISTRATION: \$15 per day, Checks received before August 7th
ON FIELD REGISTRATION: \$20.00 per day.

SEND REGISTRATION TO:

MAP AND HOTEL
INFORMATION WILL BE
SENT WITH REGISTRATION

ANKER BERG-SONNE
8 Middlemost Way
Stow Ma 01775
978 8971750
anker@ultranet.com

LATEST INFORMATION WILL BE MADE AVAILABLE ON INTERNET AT:
[HTTP://WWW.CHARLESRIVERRC.ORG](http://www.charlesriverrc.org) .

=====✂=====✂=====✂=====✂=====✂=====✂=====✂=====

NAME _____ CLASS: EXPERT ÿ SPORT FLYER ÿ JUNIOR ÿ

ADDRESS _____ CHANNEL 1st Choice _____ Channel 2nd Choice _____

CITY/STATE/ZIP _____ AMA# _____

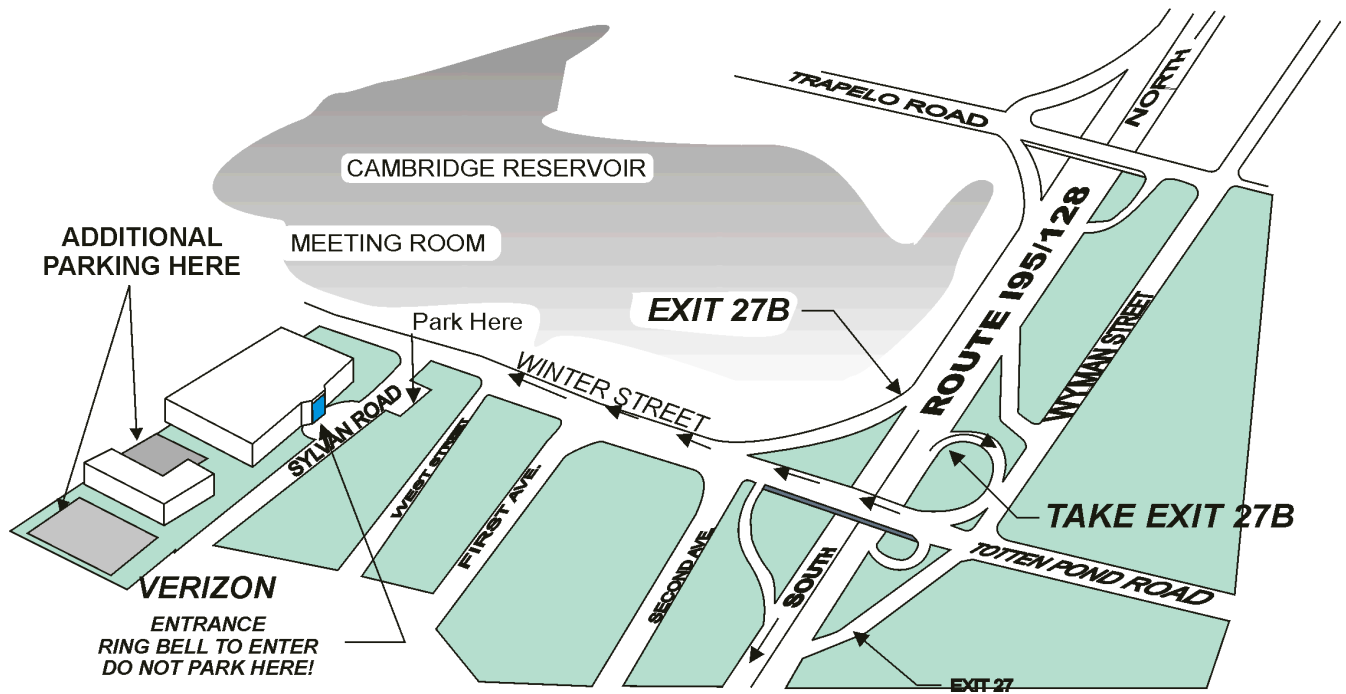
PHONE# _____ SAT: ÿ SUN: ÿ

ESL MEMBER? yes / no

Would you like to join the ESL? ÿ Yes

Make checks payable to CRRC

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



Fritz Bien /Editor
41 Saw Mill Road
Concord, MA 01742-2221