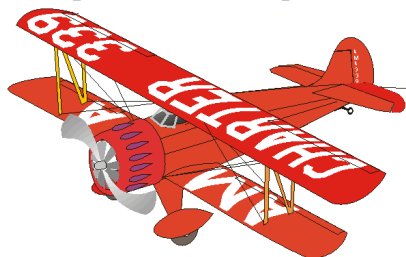


NEWSLETTER OF THE CHARLES RIVER RADIO CONTROLLERS, INC



CRRRC FLIGHT-LOG

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

AMA CHARTER 339

November 2002

VOLUME 39 NUMBER 11

2002 CRRRC OFFICERS

PRESIDENT

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508 358-5721

jon.leehey@alum.mit.edu

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978-266-1739

dveliz@omr-architects.com

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978 443-8549

williamson@ll.mit.edu

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617-923-0725

laurie@ccs.neu.edu

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978 443-8209

m.cray@attbi.com

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fritz@spectral.com

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781 235-7344

tbauer@wellesley.edu

WEBMASTER

Joel Foner

508 653-3560

jfoner@fonerassoc.com

GENERAL MEETING

Wednesday
November 20th

7:30 PM

Verizon Labs

See Map on Cover

OFFICER ELECTIONS NIGHT!

Our Guest speaker is

Bob Mc Comiskie

He is a full scale glider instructor at Sugarbush airport in Vermont. He also flies the tow plane to help pay for his glider flying time.

He will talk about his experiences soaring and finding the different types of lift. He will also talk about flying the tow plane.

-Bob Scott

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November Raffle



1st Prize *

FMA M5 Sub Micro*

FM Dual Conversion Receiver

Weight: 0.3 oz.! Dimensions 1.30" x 0.80":

Complete with Gift Certificate for a free crystal from RC Buyers Warehouse

2nd Prize Choice of:

Sub Micro Servo FMA S80*
or Gallon of fuel

3rd Prize Choice of a "Cool Tool"

(Including, but not limited to):

11" Easy Sander Bar, Razor Plane, Balsa Stripper, Hemostat, Butane Solder iron, Iron Thermometer, 100 #11 Knife Blades, X-Acto Needle files, 8pc ball driver set, or a Peck Polymers ROG FF-Kit

One prize awarded from each category.

Show and Tell prize will be selection from Cool Tools.

* Thanks to RC Buyers Warehouse, Nashua, NH for their discount to the club. Please consider them for your next hobby purchase. They are only 30 minutes away from the junction of 3 and 128.

Tom Bauer

Raffle Chairman

TREASURER'S REPORT

Report Date 10/31/02

Starting Balance 9/30/02	
Checking (after #1275)	1,942.25
Savings	4,566.18
Cash	25.00
Total Starting	\$6,533.43
Income	
Interest on Savings (October)	4.81
Dues	130.00
Total Income	134.81
Expenses	
Fritz Bien – Newsletter #1276	170.39
Teamworks Indoor Flying #1277	120.00
Fritz Bien – Newsletter #1278	107.76
Bank Fees (October)	9.00
Total Expenses	407.15
Ending Balances	
Checking (after #1275)	1,665.10
Savings	4,570.99
Cash	25.00
Total Ending 10/31/02	6,261.09

Signature: *Miner Crary*

PRESIDENT'S COLUMN

Well, we are entering the diehard flying season. As I sit here writing this, torrential rain is pounding on my roof and I am hoping it will dry out in time for flying early tomorrow morning. The last two weekends have been very windy – good for slope soaring on the cape but less good for flying at Medfield or Davis. Fall is hard to predict. For the last few years, the weather has been great through December with relatively balmy days for the FFFF on Jan 1. But this year, there was snow on October 22. I have not given up hope and intend to keep trying to fly until the Medfield access road is closed due to a foot of snow or the temperature drops below 20 degrees. Then its HiStarts and Electrics at Davis.

When the November club meeting roles around, its time to elect club officers for the next year. I would like to thank this years officers for volunteering their time and for a job well done. I would especially like to thank the following club officers for agreeing to continue in their positions next year:

- **Miner Crary** – Treasurer
- **Joel Foner** – Web Master
- **Dick Williamson** – Membership Secretary

I will be retiring as your President to take up the important role of Ex-Officio and Raffle Chairman.

After an arduous and thorough nomination process (typically I stopped at the first person who did not say “No”), the following club members have been pre-nominated:

- **Derick Veliz** – President
- **Mark Drela** – Vice President
- **Jean-Pierre Riu** – Vice President
- **Jeremy Harkin** – Recording Secretary
- **Jeff Newcum** – Newsletter Editor

- **Jon Leehey** – Raffle Weenie

We will of course be accepting more nominations from the floor, so it is not too late to volunteer and get involved. We would like to see more contested positions like we have for VP this year! I am sure the campaigns will be fierce.

TREE CLIMBERS

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

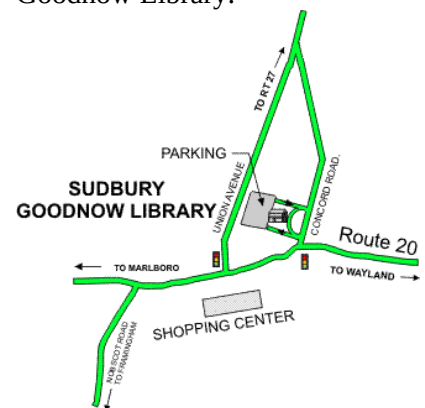
Brian Pikarski
Burlington, MA
617-797-2136

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

Paul Harrington
(508) 376-2573 [Medfield Area]

NOVEMBER DIRECTOR'S MEETING

The next directors meeting will be, Tuesday, November 26th at 7:30 PM, at the Sudbury Goodnow Library.



OCTOBER GENERAL MEETING

Jon Leehey opened the meeting at 7:40 PM.

Secretary's Report approved as written in newsletter. 1 opposed.
Treasurer's Report approved as written in newsletter. 1 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: Dick has arranged for the goalpost in the middle of the field to be moved. They didn't move it last weekend, but Dick will contact them again.
- Cow Common: People have been having luck and lots of fun for the past few weekends.
- Cape: Three members went down and had lots of fun in lots of wind. Highest recorded wind speed was 47 mph.
- Medfield: Two incidents of people doing donuts on the field. Someone moved some rocks into the break in the brush by the tracks.

Old Business:

- Membership:
 - ~185-6 members so far this year.

New Business:

- Moved the CRRC Auction date to the 10th of November.
- November 9th: Swap shop Auction in Elmsford, NY.

- We thank Jesse Hefter for getting us this room at Verizon.
- John Leehey got a call from Tom Cook who was a good friend of John Ross'. John donated his equipment to the CRRC auction with half of the proceeds going to the club.
- John Ross was a founding member of the CRRC in 1964. He came from Canada and was a WWII pilot. One of the first pylon racers in the northeast.
- Electric fun fly coming up this Sunday October 20th in Medfield.
- Derrick Veliz will be flying his plane with a camera at an event for the Science Discovery Museum October 26th. (Rain date November 9th)

New members or guests:

Joel Ventura – gas/electrics
Roman Rasenas – looking for a power pilot to speak at his full scale club meeting.
Andrew Johnsen – electrics/sailplanes
Roger Bye – electrics
David Jones – power/electrics
Mauricio Paulino – power
Jesus Gomez - power

Jon Leehey closed the meeting at 8:05 PM

Raffle:

- Great Planes J3 Cub – **Andrew Johnsen**
- Soldering Iron – **Dick Williamson**
- Needle Files - **Roger Bye**

Show and Tell:

- **John Cartisser** – Mitch Buckley crashed John's plane in July and Jack rebuilt it for John. Sukhoi 31 with a Sato 80 engine.
- **Jeff Newcum** – Fokker electric ARF. Looking forward to flying it this Sunday. He also brought a Czech Republic sailplane for slope soaring.
- **Darryl Khalil** – Came across some used weed-whacker engines from a friend. Came across a site to convert weed-whacker engines to RC. He brought a 31cc and a 25cc. Looking to put it in a Hanger 9 P19 and a Dynafight Chipmunk.
- **Warren Chafe** – Kyosho ARF GBZ kit. Sato 56 4 stroke engine.
- **Tom Bauer** – Using a golf club case to transport his planes west. He's going to line it with foam and carry his Allegro Light in it.
- **Derrick Veliz** – Jim Ryan Bearcat kit bought pre-built at NEAT. He and Ron Weissman went with 5 planes and returned with 17!
- **Zb** – His beautiful Diablo.

Show and tell prize: Zb – screw driver set

The guest speaker was **Jim Reith**, who shared his expertise and description about running a foam-cutting company for the hobby industry. Jim runs a company called RA Cores out of his basement in Southbridge, Western Massachusetts. Jim brought in some of his motor driver boards as well as samples of some of the cores he has cut.

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
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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

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
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)

Defense Advanced Research Projects Agency

News Release

IMMEDIATE RELEASE

October 18, 2002

MICRO AIR VEHICLE SETS ENDURANCE FLIGHT RECORD

The WASP micro air vehicle used multifunctional structure/power materials to set an endurance flight record during tests this summer. The WASP flew for one hour 47 minutes, more than three times the previous micro air vehicle endurance record of 30 minutes set two years ago.

The WASP design replaces separate battery and wing structure components with a multifunctional structure/battery material system that supplies electrical energy for propulsion while carrying mechanical and aerodynamic wing loads. The WASP is the first in a series of developmental micro air vehicles designed to demonstrate performance enhancement through the use of these unique multifunctional materials. The WASP is being developed under DARPA's Synthetic Multifunctional Materials program, which is exploring materials that combine the function of structure with another critical system function such as power, repair, or ballistic

protection. The combination is expected to optimize system performance and realize improved or new capabilities for military systems.

The WASP is a radio-controlled vehicle with a "flying-wing" design. The wingspan is 13 inches and the combined wing structure/battery pack weighs 120 grams. The total weight of the vehicle is 170 grams (six ounces). The vehicle uses off-the-shelf components and lithium-ion batteries, which produce the highest energy density among all rechargeable battery systems. The energy density of the battery structure was 143 watts per kilogram, with an average output power of over nine watts during the flight. The aircraft is stable and simple to fly using manually operated ground control of the aircraft's throttle, rudder, and elevator surfaces. The next generation of WASP will incorporate a simple autopilot and carry a color video camera payload.

The aircraft design, fabrication, and flight test were performed by AeroVironment Inc., Simi Valley, Calif. Telcordia Technologies, Red Bank, N.J., contributed to the conceptual design of the wing structure-

-Sent by Dick Williamson

battery and supplied the custom-designed, plastic lithium-ion battery materials that were incorporated into the WASP wing. The Naval Research Laboratory, Washington, D.C., contributed to the conceptual design of the wing structure-battery and helped to coordinate the prototype development.

-END-



Figure 1 DARPA MAV Looks like a mini-Zagi.



Figure 2A: Better perspective as to size of the MAV. Note all of the modeling techniques used.

Pictures



Figure 3: When your living room is used to display your hobbies... Scott Anderson shows off his beautiful "Compulsion" from Fred Sage Models.



Figure 4: The Compulsion is watching TV

It's not good to Lose sight of your plane near water! Radio after the Highlander decided to go to sea.



Figure 5 Servo after 10 minute a bath in Cape Cod Bay. Note all of the corrosion on leads.



Figure 6: Receiver after that same bath. The electrons from the battery did a great job etching the circuit board.

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
Dec 7 bring those WWII flyers	CRRC Indoors Flying	Teamworks Northborough	Bruce Schneider / Wayne Nelson	bruceden@rcn.com
Jan 1 2003	CRRC Frozen Finger Fun Fly	Bill Martin Field (Medfield)	Fritz Bien	fritz@spectral.com
Jan.11 2003	CRRC Indoors Flying			bruceden@rcn.com
Feb.8	CRRC Indoors Flying			bruceden@rcn.com
March 8	CRRC Indoors Flying			bruceden@rcn.com



THE CHARLES RIVER RADIO CONTROLLERS, INC

AMA Charter 339

2003 MEMBERSHIP APPLICATION

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 2002 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 1 ST DEADLINE!	Renewal before March 1 st
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

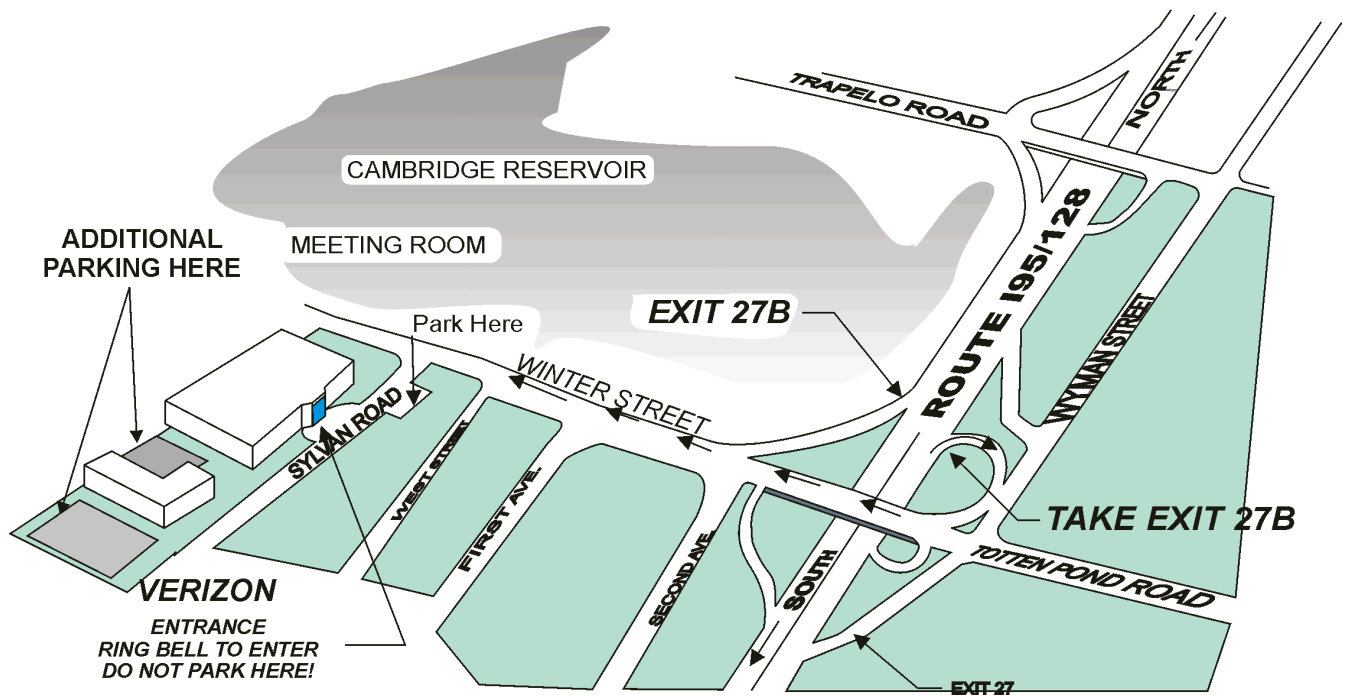
This database is made to help you select future radios that have the fewest conflicts with ones used by others at the flying field. Put the number of transmitters that you own for each frequency. **Add D if it is your primary frequency at Davis and M if it is your primary at Medfield.**

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



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