



CRRC Flight-Log

March 2016

<http://www.charlesriverrc.org>

AMA Charter 339

Next General Meeting

Tuesday March 15, 2016 7:30PM at Goodnow Library

The Speaker, Randy Scott Cohen

He will talk about "Modern rapid-prototyping for the RC hobbyist".

Calendar

Tuesday, March 15, 2016
General Meeting at
Goodnow Library

Saturday, March 26, 2016
Davis Field Clean Up

Saturday, April 16, 2016
Tenative Date for
Billy Martin Field Clean Up

April 20, 2016
General Meeting at
Goodnow Library

May 18, 2016
General Meeting at
Goodnow Library

May 14 & 15, 2016
Float Fly at
Wayland Town Beach

June 15, 2016
General Meeting
and a
Combat Event
at Davis Field

July 4, 2016
Davis Field Demo

July 16 & 17, 2016
ALES Contest
at Davis Field

July 20, 2016
General Meeting
at Davis Field

August 6 & 7, 2016
Soar-In
at Davis Field

August 17, 2016
General Meeting
at Davis Field

August 27, 2016
RES
at Davis Field

September 21, 2016
General Meeting at
Goodnow Library

September 24 & 25, 2016
Float Fly at
Wayland Town Beach



CRRC General Meeting Minutes for February 17, 2016

Old Business:

Secretary report and treasurer's report were accepted. Current membership is 106 persons.

Field Reports:

CRRC has submitted its request for the spring season at Davis field, including a request for Sunday morning flying.

The keys at the Medfield filed will be changing. Contact Ken Antonellis if you need a new key.

The Boston Multirotor Club has been staging multirotor races at Mackerel Hill in Waltham. Check the racing league website multigp.com

Guests/New Members:

Dave Fish has been flying small foamies and is interested in trying slope glider flying.

Dave Massirian has been rebuilding an older design helicopter and may want to convert it to electric power.



A learn basic & advanced soaring set-up and flying skills video was shown. It featured Mike Smith.

CRRC

President's Message

March 2016



Presidents Letter March 2016

Just about every winter that I can remember, the snow plows push all the snow down my road and create a pile on my front yard that is usually about 10 feet high. I usually have a pile

several feet high left at the end of March, and it is usually mid-April when it all melts away. This year, I just saw the last bit of snow in my yard melt a few days ago. I see day time temps of 50's or higher for the next few weeks in the forecast. Except maybe for some high winds, it looks like flying season is coming early this year.

For our monthly meeting in May, we are planning to have a build night with the FliteTest Mighty Mini Arrow flying wing kit. The board members are currently putting together a list of parts and will be taking orders for a bulk order to save on shipping. Look for more info at this month's meeting as well as on the CRRC Yahoo groups.

The lock for Bill Martin Field has been changed. To get your keys exchanged, please see Ken Antonellis. Ken will be at the meeting on March 15th. Please note that due to scheduling issues with the library, our meeting this month is on a Tuesday!!

John Eppling



John Eppling
Sundance 50 Watt
wind turbine power source



Dave Massirian
CRRC hat

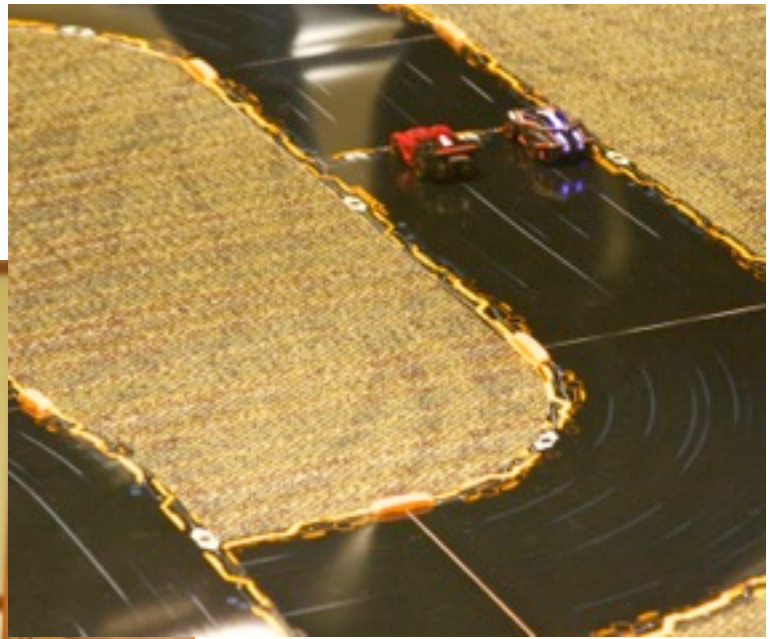


Dave Fish
Foam Tac glue



Glenn Shrader
Gentle Lady Kit

Tony Davids
Anki Overdrive car racing kit.



Eflite B-17 micro model.





Kyle Smith - Kyle showed his experimental vertical take off flying wing. The wing is designed to be able to take off and vertically and transition to normal forward flight. He also had a small racing type quadcopter with a "Tile" to help find it if gets lost.



Jimmy Two Feathers - Seawind amphibious flying boat. This model has retractable landing gear and can fly from land or water.



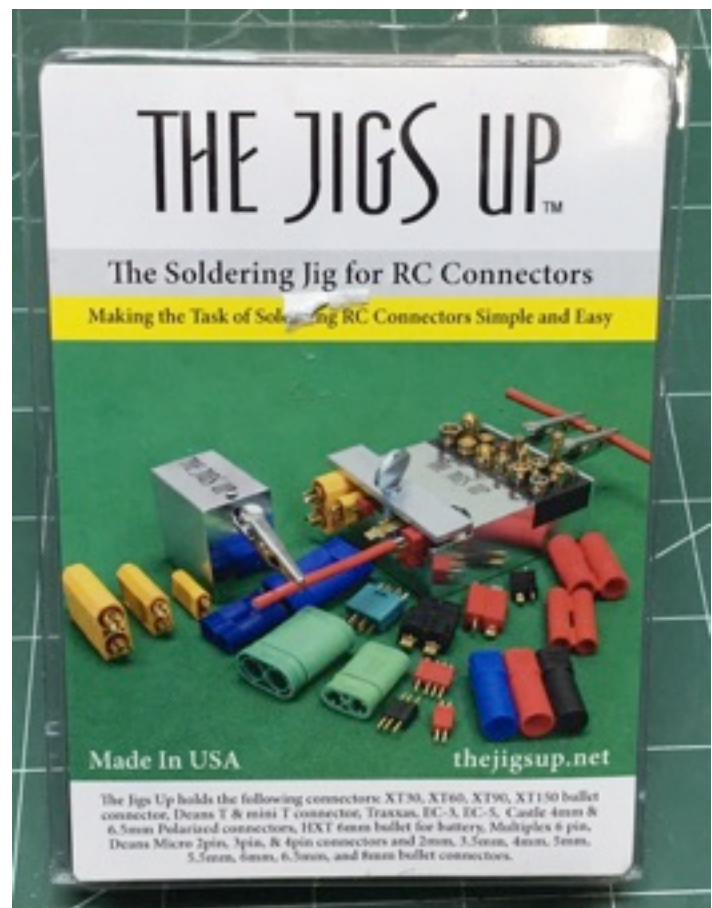
Dave Spielman
Gentle Lady powered sailplane.

Lee Arnold
Mountain Models Little Bogie
kit built balsa plane



Glenn Schrader
Flite Test Versa Wing

This month I've picked some really great raffle prizes with a spring theme. First prize is are batteries for your quad copter or for electric powered airplane. These Tattu 45C 3S batteries are awesome along with them comes a battery checker. Second prize is the Jigs Up soldering station, great for attaching new connectors to your speed control and batteries. Third is an Arm Safe ignition switch for finishing off your winter project. Come to the March meeting for chance to win these great raffle prizes. I'll see you there!



CRRC Build Night, May 2016 - FT Mini Arrow

Calling all foam builders!

As we ease our way toward flying weather, many of us are thinking about adding another arrow or two to the quiver in preparation for summer. Well, Flite Test has answered the call once again with their "Mighty Mini Arrow"! A small and simple flyer, this foamboard mini-wing looks to be a hit for park flying, streamer combat, pylon racing, and even fixed-wing FPV. Using small mini-quad style motors and sub-1000mah 2S or 3S batteries, it's a fun little dart with an 1806 motor, or a bolt through the blue using a 2204.

So dust off your hot glue gun and Xacto knife, and let's get building at the May meeting (Wednesday May 18th)! We'll be doing a group purchase on the laser-cut foam kits and basic electronics (not including battery or receiver). Or, bring your own project along to work on - it's the last indoor session before the June meeting, which will also be our electric streamer-combat night!



Option	Mini Arrow Speed-build Kit	Electronics Pack
Includes	Flite Test laser-cut "Mighty Mini Arrow" foam airframe kit, ready to build with firewall/motor mount, control horns, and pushrods.	Emax MT1806-2280kv or MT2204-2300kv brushless motor, 12A ESC, two 5-gram micro servos, and two 5- or 6-inch propellers.
Notes	Note: if the Mini Arrow doesn't look like your style, consider bringing your own project or another FT Mighty Mini series kit or FT Sparrow?	Matched kits equivalent to those recommended by Flite Test: MT-1806: Broadly flexible for 2S and 3S batteries, and appropriate for beginner-to-intermediate flyer. MT-2204: In case you'll add extra weight (like for FPV gear) or want even more speed.
Price	\$20	\$35

Ordering details:

Please respond to Adam Smith by the end of March at asmith@netspace.org to be included in the club order. Ask for just the Mini Arrow kit alone and provide your own electronics, or add on the pre-selected electronics kit and *specify either the 1806 or 2204 motor*. **Orders are due by March 31st to guarantee that we have no problems with stock or shipping delays before the May meeting.** After that date contact Adam Smith if you want to join in, there may be a follow-on order, or you can at least get the details to make your own order individually.

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What to Bring to the Build Night:

To build the Mini Arrow please bring along:

- a hot glue gun and glue sticks for the main construction process
- an X-acto or utility knife OR coarse-grit sanding paper or sanding block to bevel hinges
- pliers to z-bend the push-rods
- a self-healing cutting mat or other work surface would be ideal so that we don't mess up the tables



You could get away with just the hot glue for the main build night, and do the rest later at home.

If you want to make the plane more durable and at least vaguely waterproof, adding packing tape to the outside can be a good idea - and can add some color too! This can be done either before or after building, depending on your design. Scissors or a knife are helpful for trimming.

Getting Them in the Air:

To get your Arrow in flight, you'll also need to supply your own radio and receiver, as well as flight batteries. The recommended battery is a 2S or 3S LiPo at ~800mah. If you plan to fly with larger batteries, either they may have to mount on the outside, or you might want to enlarge the electronics pod.

Depending on our final selection of parts and vendors, the electronics kits will likely come with JST connectors on the ESC and 2mm bullets on the ESC/motors. Some soldering may be required at home.

And don't forget to get some practice time before the June meeting at Davis Field - as we're planning to hold an Electric Streamer Combat informally that evening!

Further Resources:

Product link: FT Mini Arrow: <http://store.flitetest.com/ft-mighty-mini-arrow/>

Build article and complete video: <http://flitetest.com/articles/ft-mighty-mini-arrow-build>

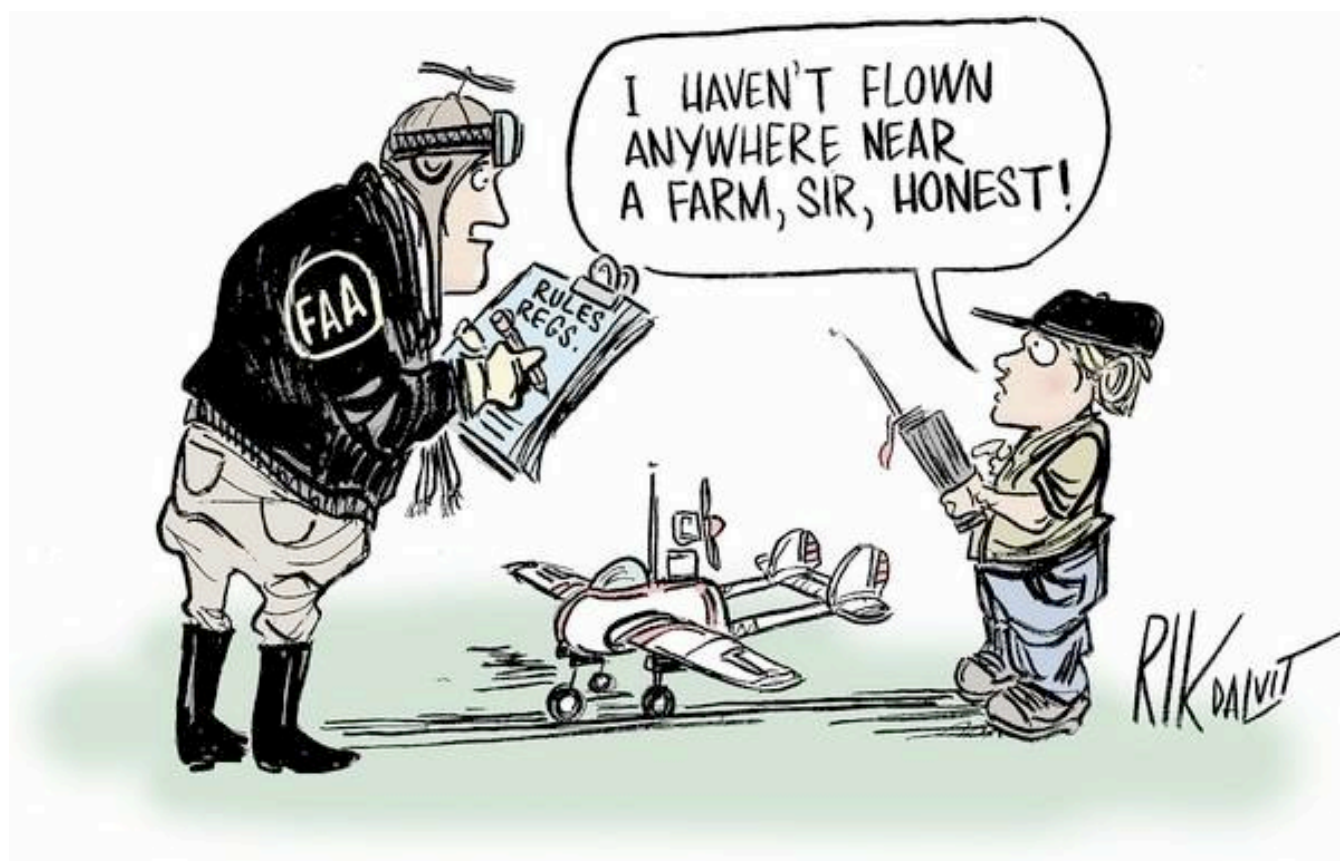
Flite Test Forum (discussion): <http://forum.flitetest.com/showthread.php?24402-FT-Mini-Arrow>

High Performance setup: https://youtu.be/nBeA_aYZ5V0

Build-and-Fly Review (note this uses the Emax 2204/2300kv motor): <http://www.tested.com/tech/564890-tested-building-and-flying-fpv-racing-wing/>

First Fixed-Wing flights with the Mini Arrow: <https://youtu.be/OTaktErYpt8>

Mini Arrow on 2S power (w/a 1704 motor): <https://youtu.be/JVtMcGekKTK>



Safety Corner

Hello everyone. I bet you're wondering why the request for CD help is a safety topic. Well we can't have really great events that are safe for public to be viewing without good CD support. I'm asking people if they can volunteer to help out with some of our events. Consider volunteering to help at the July 4 event on Davis field. John Eppling is a CD for this event and would love to have people running a buddy box so new flyers get a chance to try out RC. Having a co-CD for the ALES Contest in July would be a real help. David Spielman primary CD for this event could definitely use some help. We have another big event in August, the Soar-In. This event draws about 40 contestants so CRRC members are what makes this contest successful. Contact the Dave Walter or Anker Berg-Sonne to volunteer or let any of the board members know.

Thank you and fly safely
David Spielman

Officers

President

John Eppling

president@charlesriverrc.org

Vice President

Bert Cohen

vicepresident@charlesriverrc.org

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Dan Sullivan

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Chief Instructor

Dick Williamson

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Raffle Chairman

David Spielman

xofficio@charlesriverrc.org

Building and Flight Instructors

To start your your instruction please call the Chief Instructor, Dick Williamson. You will be match with one of the Instructors. All Instructors are qualified AMA pilots and willing to give assistance to fellow club members.

Types of instruction

B = Building

G = Glider

E = Electric

F = Fuel

H = Helicopter

Dick Williamson - B, G, E

978-618-5475 - Sudbury

Fritz Bien - B,G, E

978-369-1720 - Concord

Derick Veliz - B, E

978-337-7867 - Acton

John Weigel - B

508-655-2138 - Natick

Richard Gammon - B, G, E, F

508-835-2049 - West Boylston

Ken Antonellis - G, E, F

508-653-8369 - Natick

Bruce Schneider - G, E

978-460-0305 - Hudson

Lincoln Ross - G, E

781-901-0332 - Waltham

Dave Walter - G

978-562-5400 - Hudson

Jon Leehey - F

508-358-5721 - Wayland

Tony Davids - H

978-568-9598 - Stow

General Information

Keys to the Bill Martin Field

To get a key for Bill Martin Field in Medfield please email Ken Antonellis at kxa@verizon.net. Ken is the key-master. Effective April the key for the 2015 season is key #4. Ken may have keys at the meeting. A \$5 deposit is required the first time you receive a key.

New Wings

Flying Sites

Go to the [CRRC Website](#) and select the Flying Sites tab to see the various sites. The site page will give current weather and site information.

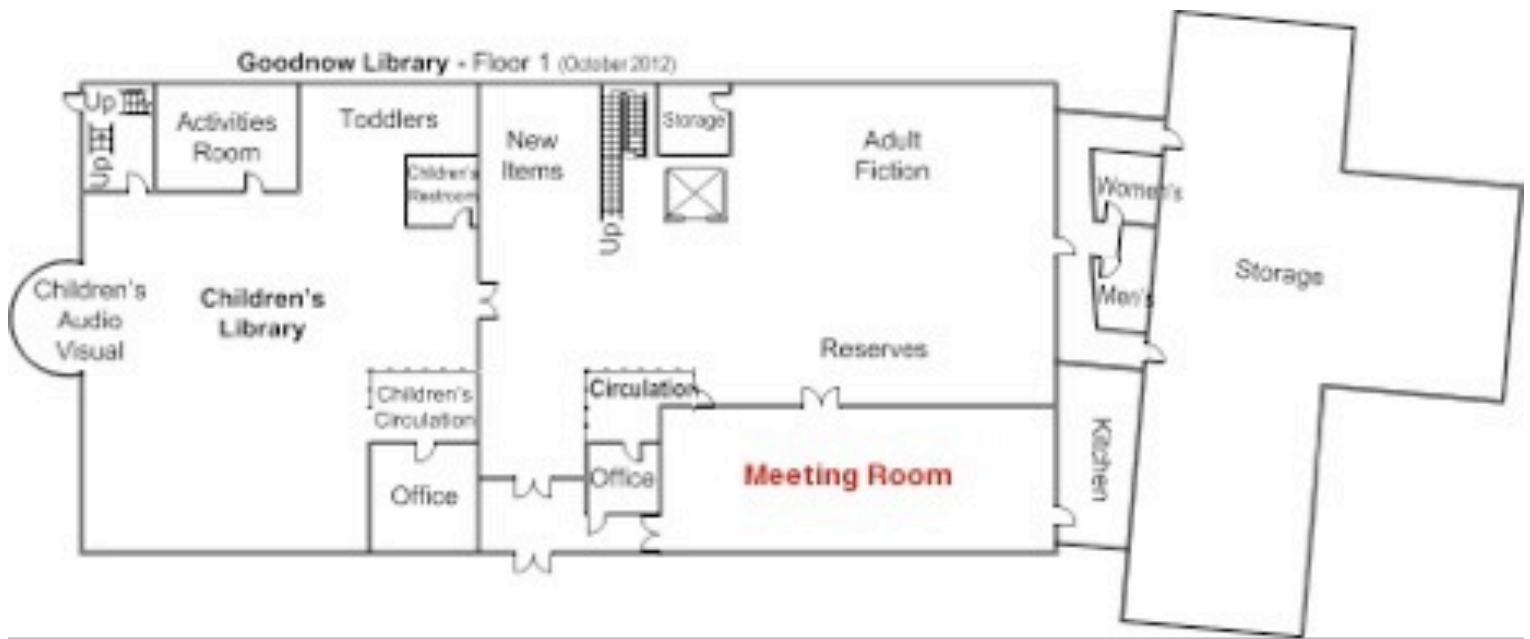
Tree Climbers

LloydKeyes(Wayland)
508-358-9197 or
508-341-0110

Scott (Sudbury)
508-203-3845

Stephen Canessa
The Tree Guy
978-460-1000

Hartney Greymont (Medfield)
Sean Comer
781-444-1227
thescomer@gmail.com



March Club Meeting Guests are Welcome

Tuesday March 15, 2016
7:30PM at the Goodnow Library
21 Concord Rd, Sudbury, MA 01776



2016 MEMBERSHIP APPLICATION

Name

Street

Town

State

Zip

Telephone

E-mail

IMPORTANT: You must be an AMA member in order to receive your CRRC membership card

Junior membership is free apply at <http://www.modelaircraft.org/membership/youth.aspx>

By submitting this membership application you agree to comply with the AMA safety code including documents 550 and 560

AMA No.

Birth Date (AMA req'd)

To receive membership card and field pass, bring this application to a club meeting, or mail to the membership secretary (address below).

David Spielman

Membership Secretary CRRC

66 Oak St, Wellesley MA 02482

781-489-5450

Email: membership@charlesriverrc.org

Please make check payable to: **Charles River RC**

You can pay by check or use PayPal.

(PayPal to membership@charlesriverrc.org)

SAVE \$5 - EARLY BIRD DUES RATES ARE LISTED

	MEMBERSHIP CATAGORY	On or before Mar 1, 2016	After Mar 1, 2016
☐	OPEN Member	\$40.00	\$45.00
☐	JUNIOR member, (Under 19 before Jul. 1)	Free if AMA member	Free if AMA member
☐	SENIOR member, (If age 60 before Jul. 1)	\$30.00	\$35.00
☐	SENIOR member, (If age 75 before Jul. 1)	Free if AMA member	Free if AMA member
☐	Full time STUDENT	\$20.00	\$25.00
☐	Family member additional to OPEN membership	\$20.00	\$25.00

☐ DO NOT include my personal contact information in the club phone book