



CRRC Flight-Log

April 2016

<http://www.charlesriverrc.org>

AMA Charter 339

Next General Meeting

Wednesday April 20, 2016 7:30PM at Goodnow Library

This will be Winter Projects Night

Calendar

April 16, 2016

**Billy Martin Field
Clean Up**

April 20, 2016

**Winter Projects Meeting
at Goodnow Library**

May 18, 2016

**Build Night 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 March 15, 2016

The meeting began at 7:50 pm

David Spielman stood in for John Epling. This really was an off meeting because there was no president, no speaker, no recording secretary, no photographer and no keys. We did have a good turnout with seventeen members in attendance. This was a Tuesday meeting and a week off from our regular schedule, so many missed the date and showed up the following Wednesday.

Our next general meeting will be the third Wednesday of the month on April 20th. This will be our winter projects night so bring your winter builds and show them off.

The treasurers report was mailed in since the Treasurer was vacationing in sunny Florida. Based on the report, Dave did not fund travel on the banking of CRRC. David Spielman read off the budget report which was unanimously approved.

New business: Davis Field cleanup will be coming up on March 26th at 9am. The field is in good condition. We estimate about an hour of work and then open flying.

The Medfield Bill Martin Field cleanup is scheduled for Saturday April 16th starting at 9:00 and followed by a BBQ. The road to the field will be trimmed and the growth from the year put in check. Expect flying soon after cleanup is done. Bring tools for road brush cleaning. The gate will be open. This is a good time to exchange keys with Ken.

The May meeting will be a build nite featuring the Mini Arrow. Adam brought in a sample for the arrow dressed with colored packing tape. The Mini Arrow kits are pre-cut and ready to

assemble. People who sign up to build a kit will need an X-acto knife, sand paper, hot glue and a cutting mat if you have one. There are two motor choices, 2204 or 1806 and will cost the same. Included in your purchase is a motor, esc, props, and servos. The electronics kit is \$35 and airplane \$20. There will be enough time to complete the kit and decorate it with the supplied color packing tape. There will be some soldering required for bullet connectors on the esc. Contact Adam Smith to place your order. You can pay with PayPal.

One of Sudbury's police officers came to Davis Field and met David Spielman to consult on an event called the "Summer-Swarm". It was expected that the event could draw 1,000 people. The police were concerned about distance from the airport which is over 5 miles from Hanscom and all of the smaller landing fields closer than 5 miles are aware of CRRC activities and approve our use. David explained that the event was most likely a multi-rotor event. The date of the Summer-Swarm was unknown and the contact information was not available.

Dick Williamson submitted the summer meeting and contest calendar with Sudbury Park and Recreation. The June, July and August meeting plus July 4th demo, July 16th and 17th ALES, August 6th and 7th Soar in and September 3rd RES contests were all included.

There were no guests and no new wings.

Next Board of Directors meeting is next Tuesday at 8:30 and can be attended using Skype. David Mak volunteered to call in.

Tickets for the raffle are 1 for a dollar, three to two dollars, one free ticket with a badge and one for a show and tell. It pays to be prepared.



Bert Cohen took home a pair of 1550 mAH 45C batteries with checker.



David Mak won the Jigs Up solder station.



Lee Arnold won the Arm-Safe power switch.



Ned Watts showed a Stevens Aero laser cut kits. Very fine fits. The model shown was a clipped wing Taylor Craft.



Bert shows a float plane made from CoroPlast, Lexan and Styrofoam. This was a kit featured in Model Aviation magazine.



Richard Gammon has a Great Planes Electrofly 3D plane. It was a very nice build and was on special for \$35 plus electronics. It built very straight and looks like it should fly well indoors.

Dick Roy had a stick built free flight Miss America "Old School"



Adam Smith had a mini Arrow with LED Strips controlled with an Arduino compatible unit controllable from a servo channel.



David Spielman shared the use of Foam Finish to refinish the fuse of an old Radian Glider. Foam finish took out divots and smoothed the surface.



A Radio Carbon Art DVD for glider setup was viewed instead of a guest speaker.



Presidents Letter, April 2016

It's April, and that means it is time for Winter Projects Night! It is time to bring out all the projects that you have been working on during the winter months. For some it may mean that you only have about a week to finish the projects that you have been putting off. Regardless of the state, bring your projects for an extended Show and Tell at our April 20th meeting in the Goodnow Library meeting room at 7:30 pm.

Last month, we had our annual Davis Field cleanup on March 26th. We had a good turnout. The field was in pretty good shape even before we started. There was probably more stuff to pick up in the parking lot than on the field. Thanks to everyone that came out. This month we have the Bill Martin Field cleanup day on April 16th.

Adam Smith has ordered the FliteTest Mighty Mini Arrow kits and electronics for the May's build night. If you didn't get in on the order and want to get a kit, don't worry. Adam will be ordering a few extra kits, but you need to let Adam know that you would like to get a kit for the build night (or if you want a kit but you won't be able to make the meeting). You can contact Adam using the email address:

webmaster@charlesriverrc.org

If you have last year's key to Bill Martin Field, please contact Ken Antonellis for this year's key. You will return last year's key, and Ken will give you the new key. If you are getting a key for the first time, there will be a one-time \$5 deposit fee. Ken can be contacted at:

kxa@verizon.net

John Eppling

Safety Corner

I've been a member of the AMA and CRRC for about 14 years now and have not heard one instance of a flying activity accident that resulted in injury or loss of property. This is a true testament to how safe flying practices work.

So if we never see an accident involving property loss, how do we know the AMA insurance will work. I found out, not by personal experience, but from a friend who flew control line .40 size racers. One of his

race planes was hit by the competition and broke apart with the engine racing into the parking lot. The engine hit a car in the hood and worked its way up to the roof denting, cutting and scraping metal and breaking glass in its path. AMA made good on the damage, paying for the repairs. Lucky for my friend Dave, who at the time was a student; earning hobby money on a paper route and doing odd jobs.

David Spielman

This month has some great spring time raffle prizes. First prize is an 80 watt digital battery charger that will meet all your needs to top off your flight packs. So if you are new to flying or would like another charger, this raffle is for you.

Second prize is a set of two Lumenier 1300 mAh high discharge LiPo batteries and battery checker. This pack is perfect for park flyer, 2 meter electric glider or 250 size quad copter. Third prize is a CRRRC logo ball cap.

Good luck winning one of these prizes. You must be present to win.



David Spielman
Exofficio



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
<i>Includes</i>	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.
<i>Notes</i>	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.
<i>Price</i>	\$20	\$35

Ordering details:

Adam Smith, asmith@netspace.org may have some extra kits. You can 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*. Contact Adam Smith if you want to join in, or 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>

Spring Float Fly

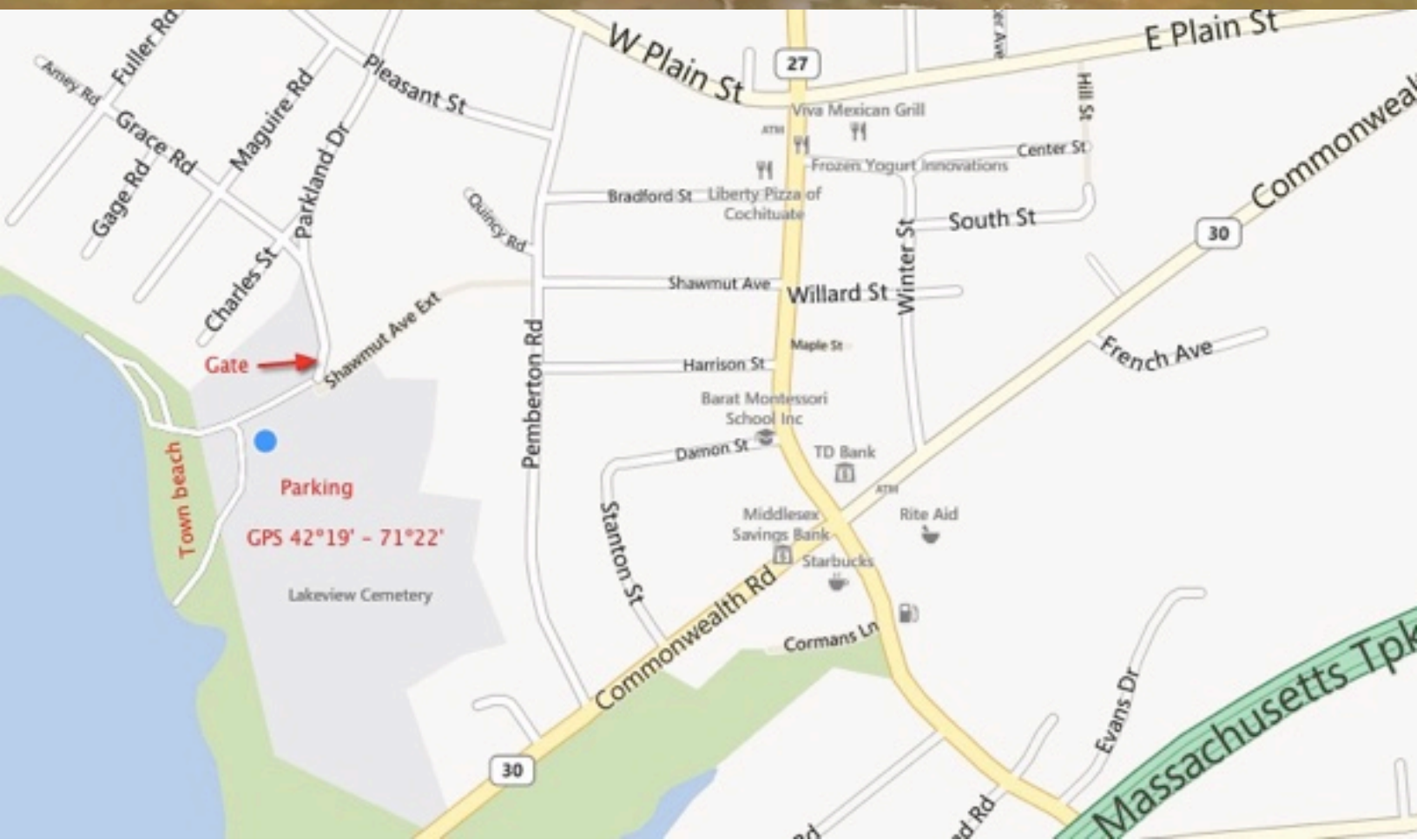
(AMA Membership Required)

May 14 & 15, 2016

Flying 9AM to 3PM both days
\$15 landing fee for the weekend

There will be Raffle Prizes
&
Food and Drink

Wayland Town Beach,
25 Parkland Drive, Wayland MA



Officers

President

John Eppling

president@charlesriverrc.org

Vice President

Bert Cohen

vicepresident@charlesriverrc.org

Treasurer

Dave Marshall

treasurer@charlesriverrc.org

Membership Secretary

David Spielman

membership@charlesriverrc.org

Recording Secretary

Dan Sullivan

secretary@charlesriverrc.org

Webmaster

Adam Smith

webmaster@charlesriverrc.org

Newsletter Editor

Robert Sisson

newsletter@charlesriverrc.org

Chief Instructor

Dick Williamson

chiefinstructor@charlesriverrc.org

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.

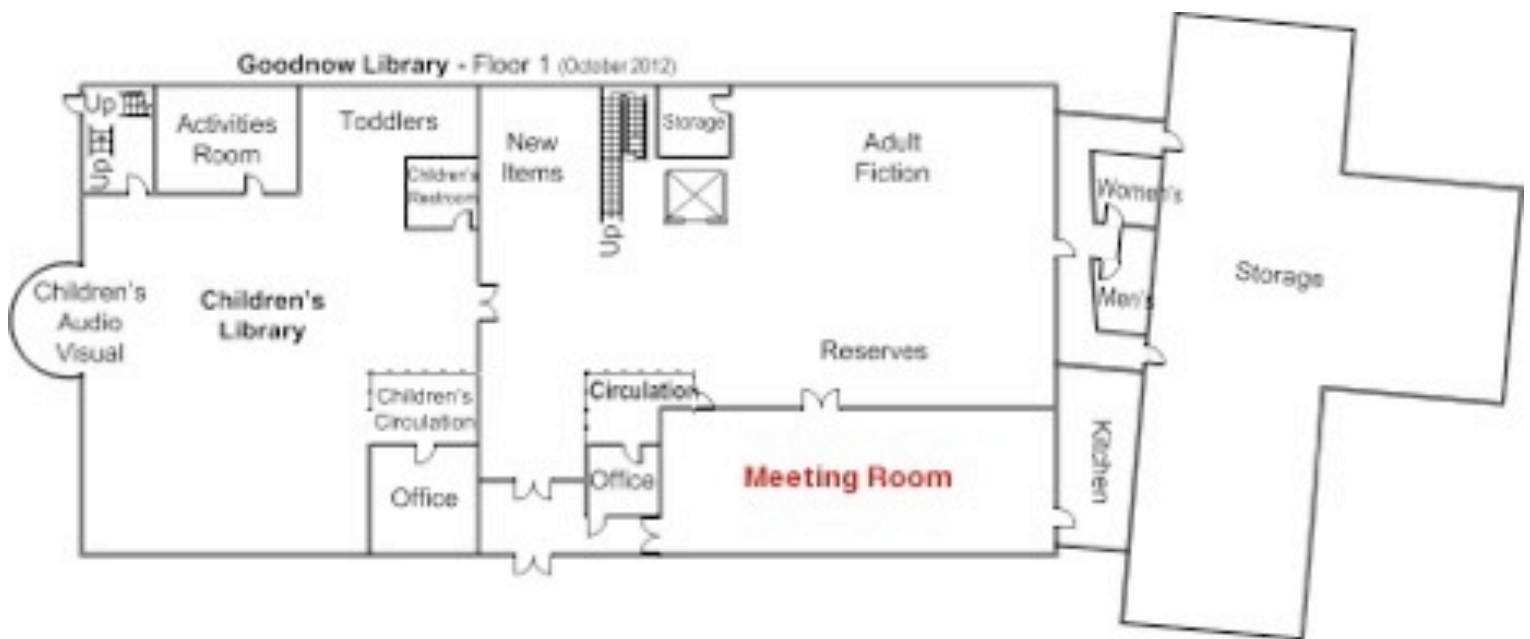
Tree Climbers

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



April Club Meeting Guests are Welcome

Wednesday April 20, 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)

MEMBERSHIP CATAGORY

- | | | |
|--------------------------|---|--------------------|
| ☐ | OPEN Member | \$45.00 |
| ☐ | JUNIOR member, (Under 19 before Jul. 1) | Free if AMA member |
| ☐ | SENIOR member, (If age 60 before Jul. 1) | \$35.00 |
| ☐ | SENIOR member, (If age 75 before Jul. 1) | Free if AMA member |
| ☐ | Full time STUDENT | \$25.00 |
| ☐ | Family member additional to OPEN membership | \$25.00 |

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