



CRRC Flight-Log

<http://www.charlesriverrc.org>

AMA Charter 339

May 2016

Next General Meeting

Wednesday May 18, 2016 7:30PM at Goodnow Library

The meeting will feature the build of a mini-wing, a small and simple flyer, this foamboard looks to be a hit for park flying, streamer combat, pylon racing, and even fixed-wing FPV.

(See the article starting on page 12)

Calendar

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

May 18, 2016
General Meeting
at Goodnow Library

June 15, 2016
General Meeting
and 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 April 20, 2016

Old Business:

Secretary report and treasurer's report were accepted.

Field Reports:

Medfield clean up day was held on April 16. There was not much cleaning needed although due to wind there was not much flying either. Thanks to all CRRC members who helped with the cleanup.

There is still some uncertainty on the status of the ALES contest as an outside group (ANT Global) has advertised a quadrotor event called the "Summer Swarm" for July 16 to be held at Davis field. The Sudbury Parks and Recreation Department is not issuing any permits for the summer season until their meeting in May, so the status of both of these events is still uncertain.

Visitors:

Melanie Sleder was visiting with her small Flite Test foamboard plane that she built and flies.

Raffle Winners



Dave Massirian
LiPo batteries



Lee Arnold
CRRC Cap



Michael Kolk
80 w AC/DC battery charger



Fritz Bien had a giant ASW-20 scale sailplane. It runs on 10 channels and weighs 7 pounds.



Joe Lemanski had an F-14 scale foamy model with operation swing wings and twin ducted fans. It runs on a 4-cell LiPo battery.

Dave Van Cleve had a Waco YMF3 biplane. It is converted from a glow model and uses a Hyperion 4035 motor and a 6 Cell LiPo battery.



Melanie and Istvan Sleder showed her small foamy electric plane, his Flite Test Bloody Baron and a small quadcopter.

Dick Roy had a RC version of a Super Ringmaster control-line plane. It still needs a motor but will run on a Eflite 480 motor (175 Watts).



Dave Mak had a Tower Hobby T-28 Fun Fighter and a Calypso motor glider





Jimi Two Feathers showed a Pawnee scale model with extensive LED lighting and a 4 foot wingspan Horizon Sport Cub.





Adam Smith showed his programmable LED lighting system and an Experimental Airlines foamboard airplane.



Ned Watts had a nice balsa wood electric park flyer made from a laser cut kit.



Dan Sullivan showed his remake of a slope glider made from a plane he bought at the CRRC auction. The tail boom is made from a golf club shaft and the front pod is cut from EPP foam.





Presidents letter May 2016

The field cleanups are behind us and we will be having our first event of the season that is the float fly on May 14-15th at Wayland Town Beach. It is a week earlier than usual, but the really long range weather forecast says 70's temperature. Get your float planes ready for this annual event. There will be hamburgers and hot dogs for lunch and raffle prizes.

Our May meeting on the 18th at Goodnow Library features a build night of the FliteTest Mini Arrow wing. Adam Smith has put together kits (foam kit and electronics) for everyone that wanted one. I believe there are still a few extra kits available if you didn't get in on the group order. Please email Adam to see if he has any kits left. His email is asmith@netspace.org.

Some of you may have heard that there is a conflict with the ALES contest on July 16th. ANT Global, a startup in Sudbury has applied for a permit at Davis field for their "Summer Swarm." The event's goal is to promote "Drones." The CRRC board thought that we already had the date because we had turned in our field reservations early, but we found out that the Sudbury Park & Rec department does not go through the applications until first week of May. We were not aware of this, since it has never been an issue with competing groups. We also always

accommodated groups like the Boy Scouts that contacted us about using the field on non-event weekends.

While we think an RC event to promote anything related to the RC hobby is good, it would have been desirable if ANT Global had been aware of CRRC and its activities. They would have if they had gone through the AMA and applied for a sanction. As far as I can tell, they were not familiar with AMA or the RC clubs that operate under the AMA rules.

I met with the CEO of ANT Global on April 28th. I explained that we do not oppose what they are trying to do but that it is unfortunate that they did not work with the AMA. I expressed my opinion that he should work with the AMA in the future and follow the AMA guidelines when organizing events that will be bringing a thousand "Drone" enthusiasts. (Yes, they expect to get a thousand pilots and spectators.) He should be well aware of the FAA regulations, and I'm surprised that they did not consider the hobby side of the unmanned aircraft operations. He did ask if we were willing to give up that date, and I said that we want the field if the Park and Rec gives us the permit. He is not willing to change the date as he said that they have too much invested in this event. The meeting was cordial, but brief. The main goal of my meeting with him was to make him aware of the AMA, CRRC, and to ensure that he works with us next year (their Summer Swarm is the first annual event) to avoid conflicts in scheduling.

As soon as we know what the Park and Rec has decided, we will announce it on our Yahoo group.

I have a few extra keys to Bill Martin Field in Medfield. If you need one, you can see me at the meeting on the 18th, or if you need one sooner but live closer to Ken Antonellis (kxa@verizon.net), you can get in touch with him to arrange for picking up a key.

John Eppling

Here are the Raffle prizes for May

Come to the CRRC open meeting for a chance to win one of three super prizes. Our first prize is the Mobius Action camera with wide angle lens. This is a must have for multi-rotor flying, flight recording and even as a dash cam. Second prize is a pocket scale, a great tool for making sure your project is built light. And finally a CRRC Logo baseball hat.



Safety Corner

Flying season is here and the weather is cooperating... finally. Here are a couple of things you should think about before flying.

Safety:

Batteries: Are receiver packs properly charged? This is critical to bringing home your plane in one piece. I've seen a number of planes do funny things when the receiver pack doesn't hold a charge. Some do stunts all on their own and others just wander off. Using a simple battery checker before your first flight of the day goes a long way to keeping things fun.

Compliance: You need labels on all your planes: AMA number or Home Address

should be attached to your plane. FAA number is an extra item this year and should also be attached inside or outside your plane.

CRRC purchased a label maker and will have it at club events and contests. You can print 1/2" tall plastic adhesive labels with black letters on a white background at no charge. We want to have all planes compliant.

One last item: Please don't fly over the farmhouse across the street from Davis Field. Our neighbors there have asked nicely and want to enjoy their yard without it raining drones and other flying things.

Fly Safely, David Spielman

Spring Float Fly

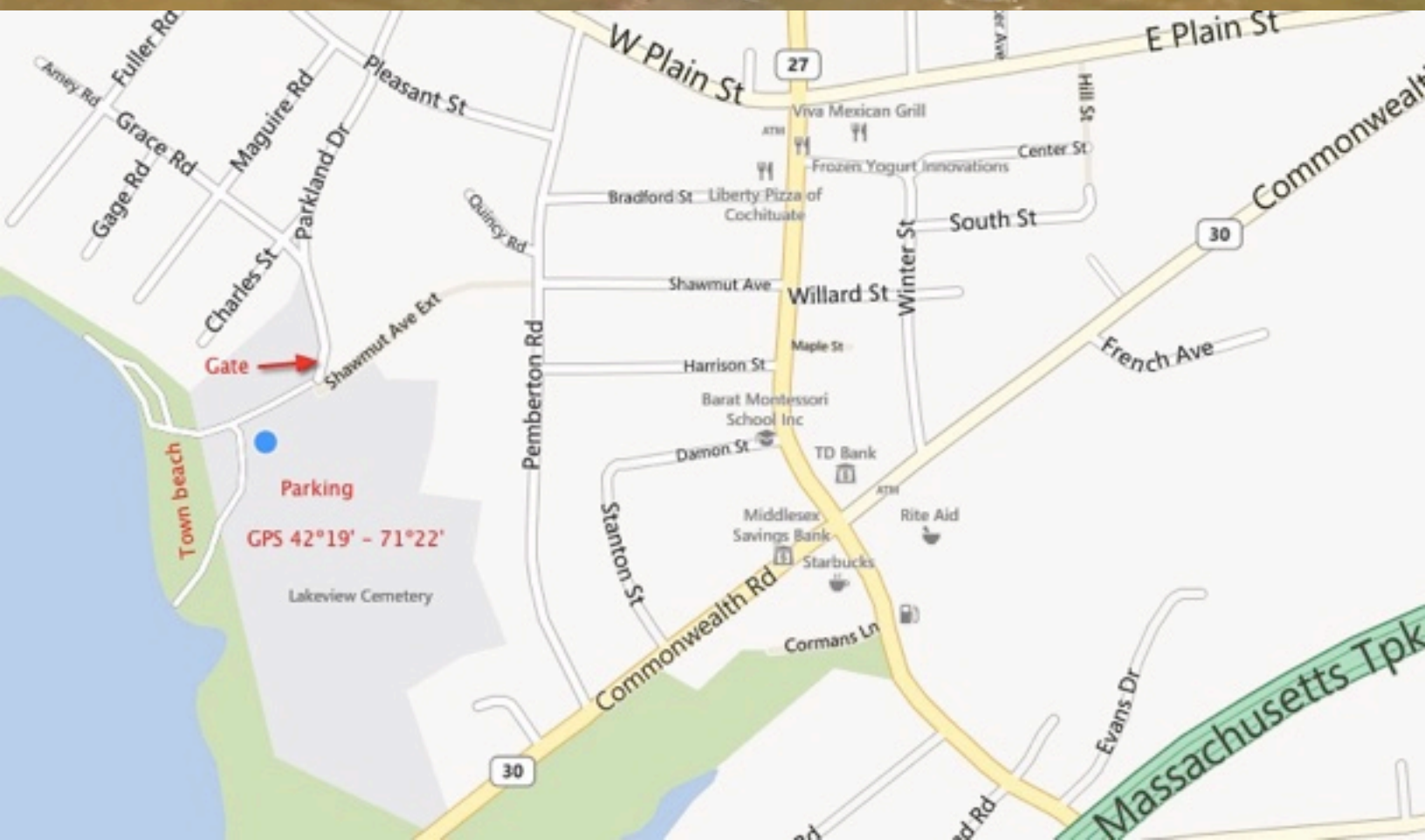
(AMA Membership Required)

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



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>

What is "Combat"?

This event is streamer combat with small electric powered planes. Pilots all launch their planes together and for 5 minutes per round try to cut the crepe paper streamer on opposing pilot's planes.

What are the rules?

1. The power system on your plane must use 100 watts or less at full throttle. 100 watts is approximately 12 amps on a 2S LiPo, or 8 amps on a 3S LiPo.

2. Your plane must be able to fly for five minutes while towing a crepe paper streamer which is approximately 20 feet long. Streamers will be provided at the contest.

When is the Event?

June 15 after the General Meeting at Davis Field

What do I need to fly combat?

A plane that you're willing to risk crashing. Although in streamer combat the objective is to cut streamers and not hit other models, mid-air collisions and other crashes are not uncommon. The ideal combat plane is crash resistant, cheap, easy to build and easy to fix, and capable of really short radius turns. The rules we set are to ensure that all the planes fly at similar speeds.

1. While planes designed specifically for combat are available, other designs (such as flat EPP 3D planes, small foam wings or park jets) could also be used.

2. Moderate pilot skill. If you can do turns and loops and keep from hitting the ground you're good enough. You will be a better pilot after the contest.

Why fly combat?

- Lots of Fun
- Great for building pilot skill
- Bragging rights

What are some recommended planes?

- **Fast and Furious** - <<http://www.rcgroups.com/forums/showatt.php?attachmentid=2746365&d=1252525689>>
- **Nifty** - <<http://www.rcgroups.com/forums/showthread.php?t=1077013>>
- **Mini-Gremlin** - <<http://racores.com/MiniGremlin.html>>
- **Bloody Wonder** - <<http://store.flitetest.com/bloody-wonder-speed-build-kit/>>

Is there any entry fee

No! This is a free event



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. The key for the 2016 season is key #15. 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.

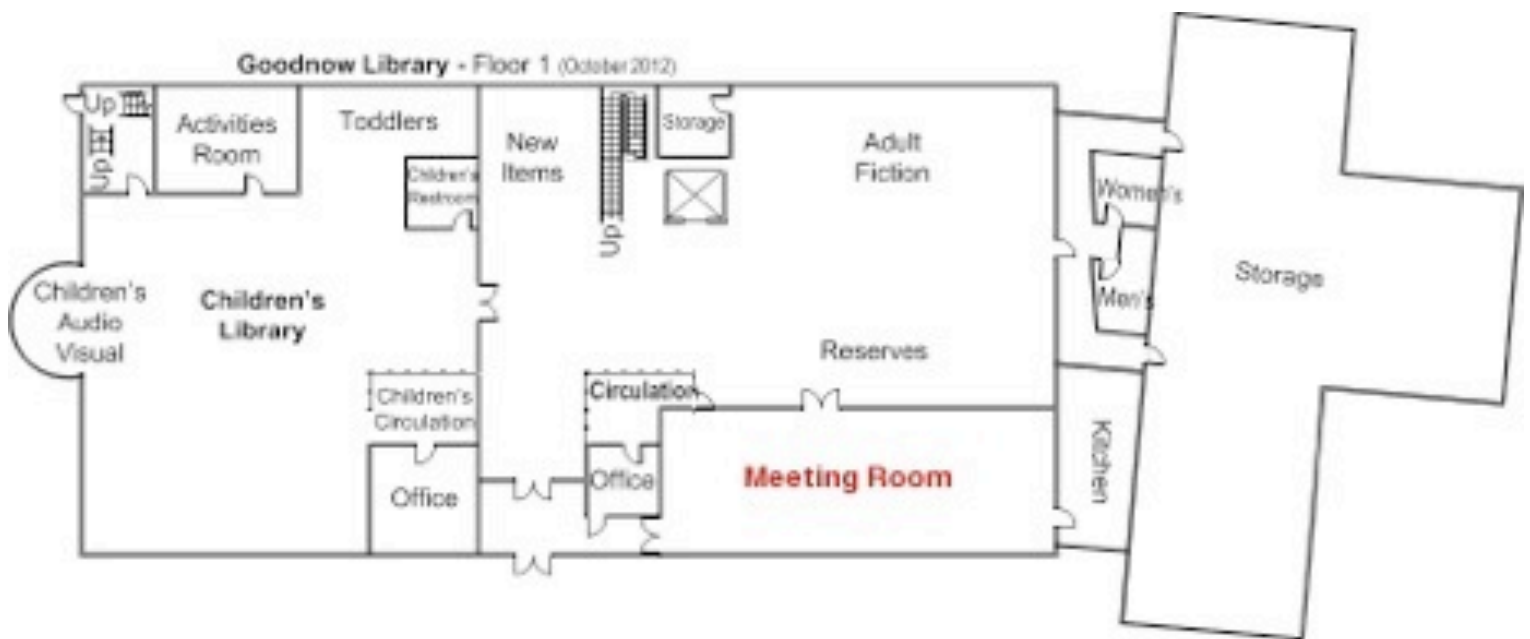
Tree Climbers

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



May Club Meeting Guests are Welcome

Wednesday May 18, 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