



February 2017

## LoveAir R/C Monthly | Volume 31 - Issue 2

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## President's Update...

For those of you who attended January's meetings, I think we all learned a few things at what was the best-attended membership meeting I've been to in the three years I've been associated with Love-Air RC. I know I enjoyed Dave Mosier's demonstration on fiber-glassing – and it seemed like everyone learned something of value during his hour-long presentation. Rich Perry commented to me afterwards that he was impressed to see “the enthusiasm for actually building model aircraft”, and it was great to see veterans like Neil and Van come away impressed. Our thanks, Dave, for sharing your time and expertise with the group. We're looking forward to Rich Perry coming in this month to discuss foam wing construction techniques. I would like to encourage any of the rest of this terrific organization to volunteer to share with us that which makes you passionate about flying model aircraft.

The board has started the budgeting process for Fiscal Year 2018. In our initial review of the finances, while the club is certainly in solid financial position, we need more annual revenue to enable the club to not only maintain the runway, but to expand and improve our physical assets at the physical site. Now that we have renewed our lease with the Drake Family, we're in a position to move confidently forwards with other upgrade projects. There are four ways of raising revenue, and as a club, we need to consider all of them:

- 1) Increasing Dues (our expenses are rising at an average 3%/year due to inflation)
- 2) Increasing Membership (with fixed expenses/assets, more membership means more capital improvements can be budgeted)
- 3) Events (our events have returned \$1.83 for every \$1.00 invested over the past two years)
- 4) Donations (as a 501c3 non-profit, we can solicit and accept donations which are tax deductible for the donor)

We will be discussing our plans at the upcoming February and March meetings, and the membership will be voting at the April meeting. Please come prepared for a brief discussion in February, a longer discussion in March, and a vote in April.

Happy Flying  
Paul Mantey  
President - NCRC, Inc.



## Meeting Information

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**Next Meeting — Wednesday February 8th  
2017 @ 7PM**

**Club Meeting Location:  
Windsor Recreation Center, Windsor Co**

**Agenda:**

- **Appointing Board Member to replace Phil Nuckles (Secretary / Membership Coordinator)**
- **Proposal for addressing Budget Shortfall (Review at March meeting / Vote at April meeting)**
- **Birds of a Feather – RC Combat / Scale / Pylon Racing / etc**
- **Foam-wing design and fabrication techniques – Rich Perry (1 hour)**





# January Meeting Minutes

## Club Meeting Information

LARC General Membership meeting  
11, 2017

January

## Jan. Meeting Minutes

New President, Paul Mantey, called the meeting to order at 7:02 PM. Our meetings are held at the Windsor Rec. Ctr. just north of Carpenter Rd. on 11th str., Windsor, Co. Our club membership stands at 105 and was represented at this meeting by 25 members.

## 2017 Board

Paul recognized, Tom McIntyre, as one of our new board members.

## Membership Information

Under new business is our club budget for the ensuing year. Paul and Fred Smith have been working on the budget and our plans well into the future. Fred gave an excellent slide presentation which covered our financial position at present and how we expect it to grow into the future. Some of the plans will probably include small dues increases to cover increasing costs.

## Dave Mosier Glass Demo

Our secretary/membership officer will need to be replaced this spring as he will move out of the area.

## RC Combat Group

Ideas were presented by the members on how we can increase funds so we can slow down the dues increase. Having more events and better presentation at these meets would help funds grow.

Dave Mosier has acquired the sanction for his Battle Stations/General Quarters warbird meet for August 18 & 19.

Andy Taylor made an observation at the field that he felt we need to get some more excitement in our flying for fun activities. He would like to introduce RC combat using inexpensive models with crepe paper tails for cutting as a way to create this excitement. If you are interested you can contact Andy.

Running short on time we proceeded to the evenings building presentation. Dave Mosier gave a demo of fiber glassing your balsa covered project. This covered prepping the balsa for the final glass work. For a subject he brought his Nick Zirolu AT-6 for this demo. Kudu's to Dave for a very good show and tell.

Rich Perry also brought a project for show and tell but since we were over our time limit for the meeting he will bring it to our next meeting.

Paul adjourned the meeting at 8:40PM.



## 2017 Board of Directors

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Paul Mantey- President; paul.mantey@netapp.com  
Van Kratzenstein- V. President marvanaircraft@gmail.com;  
Phil Nuckles- Secretary (incumbent); senporto@juno.com; (stepping  
down)  
Fred Smith- Treasurer; (incumbent); fwsmithpe@msn.com;  
Dave Mosier- Safety Officer; (incumbent) dm2@q.com;  
Derek Kruger- Director at large; (incumbent) dereksqldb@gmail.com;  
Ken Schledwitz - Director at large kschledwitz@msn.com

**You may contact the entire BOD at [bod@loveairrc.org](mailto:bod@loveairrc.org)**





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### Club Membership

The Love-Air R/C Club is a club organized to enjoy and promote the sport of flying radio controlled models. The club is a chartered member of the Academy of Model Aeronautics (AMA), a national organization whose purpose is to promote the sport of model aviation.

The annual membership fee is \$150.00 and covers from July 1st through June 30th. Membership cards are issued and a monthly newsletter is sent to each member. Current membership is required to fly at the Love-Air flying site. The club requires that all members who use the club flying field are also current members of the AMA. New members Welcome! It is easy to join and/or pay your dues – just go to the club website and follow the membership link.

Adult	\$150
Junior (18 and under)	\$25
Family	\$175

Membership Chairman:

Phillip Nuckles [membership@loveairrc.org](mailto:membership@loveairrc.org)

LARC Home Page: [www.loveairrc.org](http://www.loveairrc.org)

Newsletter: [newsletter@loveairrc.org](mailto:newsletter@loveairrc.org)

Newsletter Editor [newsletter@loveairrc.org](mailto:newsletter@loveairrc.org)





# Dave M Fiberglass Demo

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## RC Combat Group



If you missed the January meeting... well... you missed out. Dave Mosier gave us a wonderful demonstration on fiberglassing using his AT-6 project's surfaces in his demo. The following is a recap of the demonstration.

### A-26 Update:

- 5 Computers on Board
- o Bomb sequencer
- o Twin engine synchronizer (Monitors / Manages RPMs)
- o Flaps (4 big flap movements)
- o Gear Door Sequencer
- o Nosewheel steering
- 23 Servos
- Finished Weight: 45-55 lbs
- Retracts: \$1300 for the plane

### AT-6 Demonstration

- Dave uses DAP "Paint and Patch" (also/formerly known as "Fast and Final". Home Depot carries Paint and Patch, Lowe's carries Fast and Final)
- Cover entire model (before sanding) with 1/4" thick coat of Paint and Patch using a putty knife
- Sand with 320 Grit sandpaper on a board sander

### Notes about Plans versus Kits with Instructions:

- In Dave's words, Don Smith plans are horrendous (A-26). He likes the AT-6 plans from Zirolì
- Purchasing plans costs around \$80 – they come with no instructions, so be a veteran builder before trying (or know a good, patient veteran builder willing to help you out.
- Short Kits / Long Kits are available – short kits only contain the curved shapes such as wing ribs and fuselage bulkheads and the builder must then acquire the long boards such as wing spars and sheeting materials elsewhere. In a long kit or complete kit, all materials are included for the builder.
- Dave plans to put a Zenoah GT-80 into his AT-6, he likes the vibration reduction of a twin, and Zenoah does a nice job of mounting the spark plugs at an angle so as to reduce the amount of blisters and cut outs necessary on the cowl.



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### Shear Webbing:

- Dave did a nice talk about wing loading and shear webbing. A 45 lb plane will weigh 450 lbs in a 10G turn. Shear webbing keeps the main spars from sliding laterally against each other under heavy loading conditions. Using Carbon Fiber on the spar can provide as much as a 10x strength improvement versus balsa alone. Using carbon fiber, Dave suggests:
  - o Slow epoxy over the spar
  - o Lay out a strip of carbon fiber
  - o Apply slow epoxy over the carbon fiber
  - o Use Titebond on the top of the ribs
  - o Lay the sheeting down over the epoxied carbon fiber and tite-bonded ribs
  - o Do this on both sides.
- Use plywood to reinforce retract mounts
- Dave's recommended glue type usage:
  - o 75% Aliphatic Resin (Titebond, etc)
  - o 20% Epoxy
  - o 5% CA

### Fiber-glassing:

- After DAP Paint and Patch, wipe surface with tack rag
- It's important to avoid distorting the cloth – brush the bubbles out with a 1" brush
- Use a 33/33/33 mix of Zpoxy + Resin + Denatured alcohol (do not use rubbing alcohol – you don't want water in your finish)
- Cut a piece of grouting sponge (Lowe's) and sponge the alcohol thinned Zpoxy
- Use a heat gun to get rid of the dimples
- Let dry for a day
- Lightly sand
- Apply 2nd coat of thinned Zpoxy
- You'll end up with a finish so smooth and easy that even the pros like Neil and Van are impressed!





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# Combat Group

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A couple of members are trying these easy combat builds from flitetest.com If you are a novice to this type of flying and want give it a try contact Mike Maxwell at maxwell@colostate.edu and we will get an email list started and schedule a couple of informal combat trails (if more than one replies).

**See Video Below!**

