



THE INVERTED FLYER

NEWS of the BOULDER AEROMODELING SOCIETY
AMA Charter # 906

June 2012 Edition

Ken Miller Editor #47

**Original Design
Electric Float
Airplane**

**Built by
David Goodnow.**

**Flying off of
Lake McKenna**

Photo by
Chester Shans



**BAS
Meeting,**

June 13th,

**Chandler
Field**

6:30 PM

When Epoxy Doesn't Harden Properly

Epoxy is one of the best modeling materials available. It's useful as an adhesive for wetting out fiberglass cloth, as a filler, and as a finishing material. It can be thinned or thickened for a variety of purposes. Even though it is useful, epoxy can be a pain when it doesn't harden properly.

There are two important issues when dealing with epoxy, proportioning and mixing. Of these two, mixing is the most critical. Mis-proportioning the hardener to the epoxy generally leads to slow hardening, but lack of proper mixing can lead to permanently sticky epoxy.

One hundred quick, hard strokes are recommended when mixing any amount of epoxy. Count them to make sure that your mixing is adequate. Always mix your epoxy before putting in any additives. Both thinning and thickening agents can keep epoxy from mixing properly. Give the epoxy 100 strokes first and then put in the additive.

Thinning: Epoxy can be thinned using acetone or denatured alcohol. Either of these can be added to make it more watery. A mix of up to 50% doesn't seem to have any effect on the final strength of the epoxy. Thinning the epoxy will slow down the curing time and make it wet out fiberglass and carbon fiber better. Thinned epoxy also can be wiped onto balsa as a finish.

Thickening: Epoxy can be thickened by adding almost any inert, fine-grained solid from sand to cotton fiber. Modelers usually use micro balloons for thickening epoxy because they are readily available and add little weight. Thickened epoxy can be used to make fillets or to fill gaps.

Five minutes, 15 minutes, 30 minutes, more? Epoxy comes in formulations for different curing times. The times listed on the packages are strictly nominal and generally refer to curing time. Five-minute epoxy does not give you five minutes of working time. At best, you will get 20 seconds of working time in which to place five-minute epoxy before it starts to "hit." Thirty-minute epoxy gives you around one to three minutes before it starts to hit. These times will vary with temperature, mix proportions, and proper mixing, but they are good reference points. In general, five-minute epoxy is only for spot gluing. It is great for small, quick jobs, but not for involved tasks. A general rule of thumb is the working time for epoxy (after 100 strokes of mixing) is about 10% of the time listed on the package.

BAS MEETING MINUTES May 9th 2012

Meeting called to order by **PRESIDENT** David Goodnow at 6:30 pm with 14 members present. Motion by Dean Ehn with a second by David Goodnow to accept last months minutes as they appeared in the last newsletter. Motion voted and passed.

TREASURE REPORT--Treasure Dean Ehn gave a detailed report of the clubs finances.

1st VICE PRESIDENT REPORT-- 1st Vice President Augie Bruno stated the club has two new members Jim Smith and Clay Dellacva. This brings the total to 86 members of which 22 also belong to the float fly group. Clay Dellacva has already helped out the club by donating new signs for the field with the change in flying hours.

2nd VICE PRESIDENT REPORT--2nd Vice President Joe Sherran reported their have been no safety problems at the field. David Goodnow measured the distance from the north end of the north south runway which is 528 ft. He cautioned us to not fly low over the road on our final approach to the north south runway.

OLD BUSINESS-- A discussion was held on the upcoming field workday scheduled for May 12. It was decided because of the weather forecast to change the date to May 19 starting at 10am.

NEW BUSINESS-- The club picnic will be held on August 18. It will be headed up by Joe Sherran. He will need help with some of the activities which will be discussed in the future.

Rich Anderson will bring paint and brushes and sprayer for the work day he asked members to bring water for the spray. Discussion was held on painting the shelter. Mike Farnsworth offered to paint the shelter and David offered to furnish the power generator for the power sprayer.

Motion by Rich Anderson with a second by Augie Bruno to paint the shelter. Motion voted and passed.

Rich Anderson reported he had a conversation with James Mack and thought it would be a good idea to reinstate the Mal Meador youth program. A discussion followed with a motion by David Goodnow with a second by Rich Anderson to restart the program. Rich Anderson will coordinate the program with Al Coelho and Ken Jochim helping with the instruction of the students. Rich Anderson stated he wanted to use electric trainers for the training and he would set up the program for Thursday evenings.

Rich Anderson stated he has one free pass for each float fly member. The drawing for the \$20.00 gift certificate was won by Augie Bruno. Motion to adjourn by Dean Ehn with a second by Joe Sherran. Motion voted and passed.

Respectfully Submitted Rudy Glick

Skip Miller will be standing down as Chairman of the BAPC while remaining an important part of the Committee.

James Mack, who has worked tirelessly will be taking over as Committee chair.

The Club expresses it's gratitude to Skip Miller for all his efforts to date and wishes to extend a vote of confidence to James Mack in his new role.

Augie

Members, June 2012 Birthdays

Ken Miller Egil Wigert

Dave Butler Chris Volek Greg Hine

John Kolberg Eric Anderson

BAS RC Groups forum new link.

www.TinyURL.com/BASForum

See Web Page for Event Listings

www.boulderaero.org