Cloudbuster membership and subscription to the newsletter is \$16.00 per year. All memberships expire on December 31. Subscription membership includes all Newsletter issues for the year.

#### Send Subscription Checks or Money to;

Mike Welshans 976 Pearson St. Ferndale, MI 48220

#### Address all regular correspondence to;

Chuck Hickson 1004 Island Lake Dr. Oxford, MI 48371 Club Officers;

President - Davis Gloff (davis.gloff@gmail.com)

V.P. - Winn Moore (winn moore@yahoo.com)

Secretary - Chuck Hickson (hicksocl@charter.net) Treasurer - Mike Welshans (mbwwelshans@aol.com)

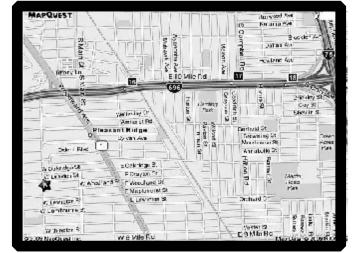
Safety Officer - Chris A. Boehm (merlin236@comcast.net)

Newsletter Editor: Chris A. Boehm, (merlin236@comcast.net) 810-348-8675

5586 Chatham Lane Grand Blanc MI 48439

Club Website by Davis Gloff, (davis.gloff@gmail.com)

Cloudbustermac.tripod.com



The Cloudbusters meet at 8pm. on the third Tuesday of the month at Drayton Ave. Presbyterian Church 2441 Pinecrest Avenue Ferndale, MI 48220 The meeting room is #309 No meetings in June, July, or August.



Be sure to visit our web page to get the 2015 & 2016 handouts. If you do not have access to the web or a printer, contact a member who does and get your copies for handout today.

Cloudbusters Model Airplane Club 976 Pearson St Ferndale MI 48220



Our 77th Year

#### **Ramblings From The Editor:**

I hope this year finds everyone healthy happy, and ready to build and fly airplanes. In this issue I have included fliers for many of this year's Cloudbuster events. If you would like a digital copy of any of the fliers, please email me or visit the Cloudbuster Web site cloudbustermac.tripod.com.

I hope that over the years everyone has enjoyed the Cloudbuster Newsletter, but I need some help. Those of you that are more experienced at this great hobby, send me an article about how you do things, that may help someone else achieve more success. It does not have to be fancy, just e-mail or snail mail me, I can get it into a format that works for the newsletter. Those of you that are not so experienced, if you have a better way for you to do something, let me know. Maybe you can help someone else, or maybe you can help some of these old dogs, learn new tricks. It you are having trouble with something, suggest an article, we do not know everything that you need. If you need help picking the right wood, getting those wrinkles out of the tissue, getting the colors correct or better, or just getting that creation of yours to fly better. let us know, maybe we can help. If you just have an amusing or interesting story, send it in. Of thought on this one, I would like to have a column titled "My Favorite Out of Sight (OOS) Flight." I like to call OOS, bittersweet victory. Victory over gravity that is. One of my favorites was when one of my embryos left the field at Broome Park. I could not find it. I received a phone call from a family about two weeks later. While on a picnic, one of the boys noticed my plane up in a tree. He proceeded to climb the tree and retrieved my plane. I think that they tried to make it fly for about two weeks before calling me, but oh well. I paid the boy, the reward and told them about our hobby. They were amazed about where I had launched the plane and where they had found it. The whole family showed up at the next contest and visited all of the Cloudbusters, and become members of the Cloudbusters. They were still expressing amazement and disbelief on the flight of the model that they had found. I got it out of the box and showed them how I wind and fly one of my creations. I showed them too good. Another OOS.

# **2017 Cloudbusters Roscoe Turner Summer Schedule**

Jan-Feb 2017

|        | April                                 |                            |
|--------|---------------------------------------|----------------------------|
| 2      | Broome Park                           | CD-Winn Moore              |
| 13     | Ultimate Soccer                       | <b>CD-Mike Welshans</b>    |
| 23     | Broome Park                           | <b>CD-George Bredehoft</b> |
|        | May                                   | o .                        |
| 7      | Ultimate Soccer Indoor Fling          | <b>CD-Winn Moore</b>       |
| 21     | Broome Park                           | CD-Ron Joyal               |
| 27     | <b>Roscoe Turner SQ AMA Muncie IN</b> | CD-Pat Murray              |
|        | June                                  | ·                          |
| 4      | Broome Park                           | <b>CD-Winn Moore</b>       |
| 10, 11 | McCook SQ AMA Site Muncie IN          | CD-Pat Murray              |
| ,      | July                                  | v                          |
| 2      | Broome Park                           | <b>CD-George Bredehoft</b> |
| 19-22  | Non-Nat's Geneseo NY                  | CD-Dave Mitchell           |
| 24-28  | AMA Nat's                             |                            |
|        | CD-Mike Welshans /                    | Co CD Pat Murray           |
|        | August                                | ·                          |
| 6      | Brooma Park Claudhusters Dionic       |                            |

**Broome Park Cloudbusters Picnic** 

CD-Mike Welshans / Co CD Chris Boehm A pre registration is required for this event because of the free food and refreshments

| deď.<br><b>20</b>  | Broome Park                        | CD-Ron Joyal         |  |  |
|--|------------------------------------|----------------------|--|--|
| 26   | Roscoe Turner SQ AMA Muncie IN     | CD-Pat Murray        |  |  |
|  | September                          |                      |  |  |
| 3  | Broome Park                        | <b>CD-Winn Moore</b> |  |  |
| 9  | Roscoe Turner SQ AMA Muncie IN     | CD-Pat Murray        |  |  |
| 14, 15   | Outdoor Champs AMA Muncie IN       | CD-Winn Moore        |  |  |
| 16, 17   | Ted Dock AMA Site Muncie IN        | CD-Pat Murray        |  |  |
| ,  | October                            | ·                    |  |  |
| 8  | Broome Park                        | CD- George Bredehoft |  |  |
| 14   | Roscoe Turner SQ AMA Muncie IN     | CD-Pat Murray        |  |  |
| 22   | Broome Park                        | CD-Ron Joyal         |  |  |
| November   |                                    |                      |  |  |
| 5  | Broome Park                        | <b>CD-Winn Moore</b> |  |  |
| 11   | Roscoe Turner SQ AMA Muncie IN     | CD-Pat Murray        |  |  |
| y FAC c  | atagory in which we can muster thi |                      |  |  |
| All FAC Events are to be flown to the Current FAC Rules. |                                    |                      |  |  |

Spectators watch for FREE! Fliers get paid with awe, fun, and excitement!

The Rulebook is available at flyingacesclub.com.

They watched that plane fly into the clouds, only to, this time, never to be seen again. Send me your story, I will get it into the newsletter

Your Editor.

Chris A. Boehm

merlin236@comcast.net

5586 Chatham Lane, Brand Blanc, MI 48439

# 2017

# Muncie Rosco Turner / FAC Ted Dock Memorial Meet Sanction #750

Sat. Sept. 16th, 8:00 am-5:00 pm

Sun. Sept. 1<sup>th</sup>, 8:00am -4:00 pm

FAC (#44) WWI COMBAT ML FAC (#12/13) GOLDEN AGE COMBINED FAC (#21) OT RUBBER STICK FAC (#24) JIMMY ALLEN ROG FAC (#31) SIMPLIFIED SCALE FAC (#33) NO-CAL SCALE FAC (#35) EMBRYO ROG FAC (#42) GREVE RACE ML AMA (#124) P-30 (JR)\* (SO)\* AMA (#140) HAND LAUNCH GLIDER (JR)\* (SO)\*

FAC (#45) WWII COMBAT ML FAC (#2) RUBBER SCALE\* FAC (#22) OT RUBBER FUSELAGE FAC (#23) 2 BIT + 1 RUBBER ROG FAC (#32) DIME SCALE FAC (#34) PHANTOM FLASH ROG FAC (#36) JET CATAPULT SCALE (#41)THOMPSON RACE ML AMA (#142) CAT. GLIDER (JR)\* (SO)\*

#### \*THE FOLLOWING EVENTS CAN BE FLOWN EITHER DAY, START & FINISH THE SAME DAY\*: FAC (#2) RUBBER SCALE

Combined events may be split into separate events if there are Enough to fill out each. This will be encouraged! All ties to be mass launch settled

\$10.00 1<sup>ST</sup> EVENT, \$2.00 EACH ADDITIONAL, \$20.00 MAX, JUNIORS FREE PRIZES:  $1^{ST}$  = PLAQUE(?)  $2^{ND}$  AND  $3^{RD}$  = CERTIFICATES

Previous entry & judging on site from the 2017 OUTDOOR CHAMPS meet Will be honored, (keep your score cards for easy processing!) all models must be processed and judged prior to official flights **Fac 2016-2017 rules apply** 

Stay tuned to the weather! We have combined all Events into one day before to avoid inclement weather. Also, flying to dark to squeeze it all in has happened too! It sure makes it fun. You never know what's going to happen. CD will be present 30 minutes prior to contest to determine Flying Site and weather.

ALL NON-SCALE AMA EVENT MODELS MUST HAVE PROPER SIZED AMA NUMBERS GLIDERS MUST FLY FROM PENS \*NATIONAL CUP EVENTS

CD: PAT MURRAY 6361 W 800 N McCORDSVILLE, IN 46055 CELL:317-410-2200 EMAIL: PMURRAY@CENTERLINEDESIGNLLC.COM

> Contest location is on the sprawling +1100 acres of the AMA National HQ's! Muncie, IN

THERE WILL BE A RAFFLE AS LAST YEAR W/ LOTS OF VALUABLE PRIZES!!

**CLOUDBUSTERS** 

# 2017





A.M.A. Flying Site - Muncie Indiana Sept 14 & 15 8:30 AM to 4:30 PM

A.M.A. Sanction xxx

CD Winn Moore – winn moore @yahoo.com

Co-CD Pat Murray – pmurray@centerlinedesignllc.com

## **EVENTS**

|            | Thursday 9/14                 |     | Friday 9/15                |
|------------|-------------------------------|-----|----------------------------|
| #1         | FAC Peanut Scale              | #1  | <b>FAC Peanut Scale</b>    |
| #2         | FAC Rubber Scale              | #2  | FAC Rubber Scale           |
| #3         | FAC Jumbo Scale               | #3  | FAC Jumbo Scale            |
| #12        | Golden Age Multi-wing         | #11 | Low Wing Military Trainer  |
| #13        | Golden Age Monoplane          | #21 | OT Rubber Stick            |
| #22        | OT Rubber Fuselage (ROG)      | #32 | FAC Dime Scale*            |
| #35        | Embryo Endurance (ROG)*       | #36 | Jet Catapult               |
| #42        | Greve Race (ML)               | #41 | Thompson Trophy Race (ML)  |
| #44        | WWI Dogfight (ML)             | #43 | Goodyear/Formula Race (ML) |
| <b>#99</b> | One-Design Lockheed Transport | #45 | WWII Combat (ML)           |
| <b>#98</b> | AMA P-30                      | #26 | 1/2 Wakefield*             |

Schedule changes due to inclement weather are at the discretion of the CD.

All models for scale judging (events 1-3) must be turned in not later than 10:00 a.m. Thur. 9/14

Early registration, compliance and judging will be available Wed 9/13 from 1:00 pm until 5:00p.m.

Scale judged events can be flown either day. Scale judged events lacking 3 participants will be combined with FAC scale.

All mass launch models will require compliance checks not later than 1 hour prior to the event. Launch times will be posted at H P-30 will be flown to current AMA Rules. (not Kanone Worthy)

\*Events will be flown as best 3 of 6.

Mass launch will be used to break all ties.

#### \$25.00 Entry fee includes all events. Trophies awarded to third place. All entrants must hold

Remembership it Flying FAC Events

Entry includes:

B. The Theme Model plan, Late 1930's Comet design of the Vega

(a division of Lockheed) Transport. (the One-Design of the Vega

Note: Additional Theme "T"

Ted Dock Memorial

## EVENT SPONSORS ARE WELCOME. (SPONSORSHIP \$40 /EVENT)

Bring something from your excess model "stuff" for the raffle.

Registration: Make checks payable to Cloudbuster MAC and mail to Winn Moore 2389 Olds Rd Metamora, MI 48-55 or Use the PayPal option at the Cloudbuster Web Site.

Early Registration encouraged!

| ame           |      | A.M.A.#       | A.M.A. #                         |    |
|---------------|------|---------------|----------------------------------|----|
| Street        | City | State         | Zip                              |    |
| Email Address |      | "T" Shirt siz | e S – M <b></b> L – XL <b></b> 2 | XL |

# 2016 Lessons Learned #3 – Props, Pre-Flight, and Apps

#### Posted on 13 December 2016 by Bredehoft

Learning is a good thing. And learning things that help your planes fly better is a great thing. So I am continuing with things I learned (or rediscovered) in 2016. Maybe by reciting them here, over and over, I won't forget them (again)!

#### FREEWHEELING PROPELLERS

Everyone wants their props to freewheel when the rubber runs out (well, outdoor guys do – indoor guys securely fasten the prop to the prop shaft). This is so desirable that virtually every plastic prop made has a ramp freewheeling device built into it. (And virtually every one should be modified to make it better, but that's another story.) Post-production freewheelers are so popular that there have been many, many designs invented and articles and how-tos written on them. Just check all the articles on freewheelers HERE. volareproducts.com/?page\_id=1686

I prefer bail-type freewheelers, but sometimes you just can't afford the extra weight so you need to choose a Garami/Struck style or a Nason style. They all work well and have their good points and bad points, but one thing that they "can" have in common is that they can resist freewheeling if not set up properly – even the ramp will do this regularly, if you don't take precautions.

If you braid your motors, you do so to prevent CG shifting of weight of the rubber. However, one thing that happens is the motor retains some tension on the prop shaft, pulling it rearward. There is a LOT of rearward pull when the motor is wound but the wound torsion overcomes the tension, especially if you use teflon washers or ball bearings. But when the motor runs out, the residual tension pulling back can be just enough pull on that prop shaft to prevent proper freewheeling and prop-lock occurs. Have you ever had a great flight and cruise only to end quickly with a spiral dive to the right? If so, that was probably caused by the prop locking and acting like a rudder on the nose.

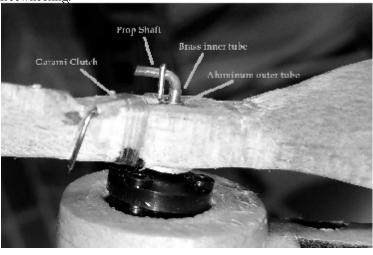
Tube-in-tube prop bushings are the solution. But there are two parts that must be followed, regardless of your freewheeler style, to ensure proper freewheeling, free from the tension of the braided motor:

You must use two tubes — or if you only use one on a plastic prop, the prop must be free to spin ON THIS TUBE. In standard tube-in-tube, the outer tube is cemented to the prop and the inner tube slip-fits inside — and the prop shaft slip-fits inside the inner tube.

The inner tube MUST be at least 1/16" longer than the outer tube or prop body. The purpose of this is to allow the rubber tension to pull on the prop shaft and inner tube while the outer tube and propeller are free to spin, not subject to the tension (all of this after the prop has disengaged).

My experiences, hopefully never to be repeated: a) I made the two tubes the same length – unfortunately, this causes the prop shaft to pull back on the entire prop and locking it – FAIL. or b) I only made one tube; I made it longer but cemented it to the prop. The extra length was to clear the Garami clutch structure, but I forgot about letting the prop spin and it locked – FAIL.

Here is a properly built prop assembly on a wooden prop, with an aluminum outer tube and a brass inner tube. The inner tube is long enough to clear the Garami clutch AND allow the prop to spin when freewheeling.



#### PRE-FLIGHT TRIM

Pre-Flight Trim is essential for reliable and consistent operation of our models. It is not a life-or-death situation, like with full-scale, but it is important if you want to win. I have three stories about this:

my Wanderer. I need to remember to make sure that the tail is properly located and anchored on the fuselage. Maybe 10-15% of my flights have been marginal and sometimes scary. It has a pop-up tail DT and I imagine that an improper seating of the tail has caused my erratic flights on a reliable model.

Sometimes we trust our models so much that we get into the mode where we pull them out of the box and fly them in competition – without any testing at all. I've done this often. You may recall at the beginning of the year, I built a NoCal Fairey Barracuda to take to an indoor contest in Colorado Springs. I flew it in WWII Combat after testing for many hours. But one of the competitors – the sure favorite – pulled his trusty model out of the box, wound it up, and suffered a disastrous flight. Afterwards he realized there was a significant amount of damage to one of his wings – not testing, or even checking, cost him the event.

At my most recent indoor contest with the same Barracuda, I nearly gave away the event because I pulled it out of the box and flew for time – and got significantly less than the normal 2+ minutes. I flew again and got less than 1 minute! Two crappy times recorded and one to go. A quick inspection revealed a motor with a huge nick, almost ready to snap and a good deal of wash-in on the inboard tip. I replaced the rubber, fixed the wash-in, and put up a 2:36-good enough to squeak out a win.

CHECK YOUR MODELS before you fly! Get in the habit of giving them a once-over. If there is time (I mean, make time), take a test flight. You will be happier at the end of the day.

PHONE APPS

NOTE: I don't sell these programs (they are free) and I didn't develop these programs; I am just a happy user. These software programs aren't really

things that helped my planes fly, but one is useful on field and one is useful at home.

BEARING (AZIMUTH) NAVIGATION – I didn't discover this, but I did download it and try it out. It is a very useful program that allows you to head off in the proper direction to find yoru model,



assuming a couple of things: a) that you have a known bearing on the model (from binoculars or a compass) and b) you enter that bearing into the program. The program (for android devices) plots that bearing line on a satellite view of the area. You can vary the length of the plotted line to be sure you are going far enough. And the really cool thing is that, as you travel across the field or side track down a road, the program will update your current position in relation to that bearing line – you can then track back to the original line. With the satellite view, you can spot larger landmarks and predict where your model might be. My son and I did use this last year to find a model – and we did! This was developed by Aviv Balassiano, who apparently is an F1A flyer. It is free and well worth the price!

Here is the Google Store LINK.

play.google.com/store/apps/details?id=com.bearingnavigation.android&hl =en

RESILIO SYNC – I take literally thousands of photos every year. More and more of those are being taken on my cell phone (as opposed to my DSLR). Unfortunately, it takes time and effort to transfer photos from my phone to my computer. I found this program (it installs on both your phone and your computer) that AUTOMATICALLY takes care of photo transfers from my phone to my computer. It is not instantaneous, but it checks every so often to see if there is a new file on the phone. The transfer is fast. The technology is similar, if not the same as Torrent transfers, but there is only one host, not many like traditional torrents. I don't know if it works remotely – like if I am not close to my computer. I do know that when I do get home and get to a place where I am ready to look at the photos on my computer, they have already transferred. I am sure it has more capability than I am using, but it works great for me, as is.

Here is the WEBSITE. www.resilio.com/individuals/

#### **CARVING A CANOPY PLUG**

Ripped from stickandtissue.com/

Howdy...

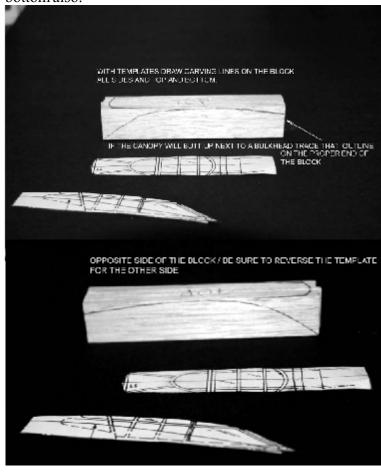
Just thought I share a brief tutorial on carving a canopy plug for vacuforming or plunge molding of a canopy.

This is really basic but some may have not ever carved a plug before.

1. Find a block of balsa or bass wood of suitable size. If necessary laminate wood for an appropriate size block.



2. Cut out templates from the plan, or trace or copy the templates from the plan for laying out the canopy plug to be carved. Using the templates draw the outlines on the block. Reverse the templates for the opposite sides and mark top and bottom also.



..3. Start carving away anything that isn't a canopy. I used a razor saw to cut away the large wedge and razor knife to carve close to lines drawn on block. "I saw the angel in the marble and carved until I set him free."  $\sim$  Michelangelo Roll Eyes Couldn't resist! Grin



5. Once all the lines have been sanded away showing the shape of the final canopy. It's time to finish sand the plug. Start with 320 grit and smooth the plug all over. Then use some 400 wet or

dry (used dry) to final sand the plug before sealing. You can use sanding sealer or thin CYA glue to seal the wood. Use 400 between each coat. I then use 600 to final sand the plug and make the finish smooth as glass. Remember any blemish, bump, scratch will be transferred to the final canopy acetate/plastic.

6. You are now ready to vacuform or plunge mold the canopy. Check out the vacuform video by Chris B o e h m www.youtube.com/user/merli n2360

I plunged molded this first canopy. Got some wrinkles so I'll be making another couple to get the best one.

So start carving your canopy plugs and any other needed carved articles for your model. Tom







**Entry Fees:** 

\$30.00 post marked by April 20 \$35.00 at door

Special Sunior Entrants
Entry Fee! Science Olympiad
\$1.000 Flash

### Spectators – FREE!

Send Check or Money order to Mike Welshans

Cloudbuster's MAC 976 Pearson,

Ferndale, MI 48220

## **AMA EVENTS**

| Standard Cat Glider  | 218 |
|----------------------|-----|
| Unlimited Cat Glider | 219 |
| Hand Launched Glider | 212 |
| Manhattan Cabin      | 205 |
| Limited Penny Plane  | 208 |
| Penny Plane          | 207 |
| Bostonian            | 215 |
| F1L Easy B           | 217 |
| Mini Stick + MS ML   | 220 |
| Inter Stick          | 202 |
| F1D (no rounds)      | 203 |
|                      |     |

Sunday, May 7, 2017 Ultimate Soccer Arena

An AMA Sanctioned Class AAA Contest

AMA Category III Ceiling

867 South Blvd E, Pontiac MI 2 miles south of the Silverdome

**Flying** 

9:00AM- 5:00PM\*

Flying Floor split in half.

## Phantom Flash for Juniors Separate Awards

Phantom Flash kits Available at

Prop Shop Hobbies, Inc. – "Your Complete Model S
23326 Van Dyke Ave. Warren, MI 48089
586-757-7160 propshophobbies.com
Carlton Hobbies – "We make hobbies affordable

8194 Cooley Lake Road White Lake, MI 48386 248-360-4910 carltonhobbiesshop.com

Flight Line Hobbies
3039 Baldwin Rd. Lake Orion, MI 48359
248-814-8359 www.flightlinehobby.us

Retro RC – Vintage & Retro Model Aeroplane K
PO Box 193 Keego Harbor, MI 48320
248-212-9666 – retrorc.us.com
Volare Products - Shorty's Basement
269-339-9795 volareproducts.com

FAC- Mike Welshans 248-545-7601 Mbwelshans@aol.com AMA - Paul Crowley 586-294-1236 usa2298@comcast.net

**Contest Director** 

**Event Managers** 

Winn Moore 248-830-6294

winn moore@yahoo.com

## **FAC EVENTS**

- 1 FAC Peanut Scale
- 2 FAC Scale
- 13 FAC Golden Age Monoplai
- 32 FAC Dime Scale
- 33 FAC No Cal
- 34 FAC Phantom Flash
- 35 FAC Embryo
- 36 Jet Catapult
- 43 FAC Goodyear Racers
- 44 FAC WW-I ML
- 45 FAC WW-II ML Junior Phantom Flash

All FAC Events flown to 2016/2017 FAC Rules

See Registration Form for map to site and details of events.



# 2017 INDOOR FLING

An AMA Sanctioned Class AAA Contest Sanction Number 14-xxx

Presented By: Cloudbusters Model Airplane Club of Michigan & The Detroit Balsa-Bugs In conjunction with:The Michigan Indoor Aircraft Association

# **Official Registration Form**

| Name  |  | AMA   | AMA #                 |  |
|---|--|---|-----------------------|--|
| Address   |  |   |                       |  |
| City  | State  | _ Zip   |                       |  |
| Yes, I w  | ould like to be on                                 | the Cloudbuster Official Email List   |                       |  |
| Entry Fees:<br>330- post mar<br>335- at door    | ked by April 23                                    | Make checks payable to:  Cloudbusters Model Airplane Club Send by April 23, 2017 to:  Mike Welshans | Please Print Legibly. |  |
| Special<br>Entry Fee! Scie<br>51. <sup>90</sup> | ior Entrants<br>ence Olympiad<br>ior Phantom Flash | Cloudbuster's MAC<br>976 Pearson<br>Ferndale, MI 48220  |                       |  |
| Contest Direction Moore 2                       | tor<br>248-830-6294                                | When: Sunday, May 7 from 9:00 AM to   | 5:00 PM               |  |

867 South Blvd E.

Pontiac MI

## **Event Schedule:**

8:00 AM Registration

**Event Managers** 

**9:00 AM-10:30 AM** FAC Scale Events Judging **9:00 AM-5:00 PM** Open flying for all events.

Mass Launches: 12:00 Noon - WW-I, 1:00 PM - WW-II.

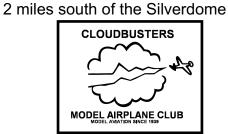
AMA-Paul Crowley 586-294-1236

FAC-Mike Welshans 248-545-7601

1:00 PM - WW-II, 2:00 PM - Mini-Stick

3:00 PM - Goodyear Racers

All official flight times must be turned in by 5:00 PM 5:30 PM - 6:00 PM Awards Presentation









All AMA Events will be flown to current AMA Rules for Indoor Free Flight.

<a href="http://www.modelaircraft.org/events/compreg.aspx">http://www.modelaircraft.org/events/compreg.aspx</a>

All FAC Events will be flown to current FAC Rules. http://www.flyingacesclub.com/FACrules3.html

Phantom Flash for Beginners flown to current FAC Rules.

All decisions of Event Managers Are Final.
Please make sure your models qualify
to the current rules.

