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# Minneapolis Modeler

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# *"Full Schedule of Indoor and Outdoor Events for 2007"*

## *Monthly Meetings: Changes..Please Note!!!*

*Upcoming Events:*

1. *February 26, informal indoor contest*
2. *March 2, club meeting at the EAA at the Anoka County Airport, Indoor Contest at new site per March meeting discussions.*
3. *April 6…. meeting at the EAA at the Anoka County Airport*
4. *May 5, first outdoor contest at North Branch, see schedule of events*

## ***Indoor flying Sessions:***

**If you tried to follow our indoor Friday evening schedule as posted in our last newsletter, you were probably disappointed, as we all were. Several people showed up early at our first session, and found the gymnasium filled up with volley ball players. Evidently with the change in management, our agreed on dates had not been recorded, and had been given out to the Bloomington athletic program.**
**So after further discussions we were able to arrange for several Monday sessions**

**So here are the *Monday* Indoor Session Dates at the Bloomington Armory:**

**Feb. 26 (Mon.) 7 – 9**
**Mar. 12 (Mon.) 7 – 9**
**Apr. 9 (Mon.) 7 – 9**
**May 7 (Mon.) 7 – 9 pm**

**Please note that you may show up early, like 5:30-6:00 PM and fly until almost 10:00PM. We are hoping that more hours will be available on those dates, so try and take advantage of them.**

**The Bloomington Armory:**
**We are privileged to once again use the:**
**"Army Reserve Gym" located at 3300 West 98th Street in Bloomington, just east of the Normandale Country Club, and adjacent to the Ice Arena. Take 35 W south to 98th street, west to the Armory. Donations will be collected to help the club defray cost of the $20 per hour rental fee. Come out and join us for these flying sessions.**

## ***February Auction and meeting notes:***

**We had a short business meeting with 17 members present. 2007 Indoor and outdoor schedules were distributed. Duane McDonald and Gary Oakins are checking out some additional indoor sites.**

**Once again Aaron Peterson did his best in coaxing us MMAC tite-wads into parting with a little of our cash in exchange for valuable treasures. Someplace between $300 and $400 reached the MMAC treasury.**

# OAKIE'S ORACLES

**Merry Christmas and Happy New Year to one and all .Time goes much too fast. I trust your new year's resolutions include more model building and much more flying. Personally I'm resolved to attend the 2007 Nats, the CIA Fall contest, the contest at Lawrenceville IL., and the King Orange Internationals. I hope my plans aren't too grandiose.**

**The election of officers was held at the Dec. meeting. You're stuck with the same officers; Dave, Denny, and yours truly. If we screw up we may face impeachment. I trust not.**

**Dave Edmonson gets 22 atta boys as he is an alternate for the USA FAI team at the world champs in'07. Dave is working with his grandchildren, Brittney and Joshua Brown, to qualify for the Jr. FAI team in '08. The best of luck to them.**

**A very special Happy Birthday to Mr. Jack O'Leary who is now 80 years 'young'. He doesn't look a day over 68. He had a very nice party at the Edina Art Center. On display were some fine pieces of Jack's, his wife Florence, his daughter Quinn, and son Brian, a very talented family. It was well attended by relatives, friends, and many MMAC club members. Jack's daughter composed a nice poem in tribute to Jack. The food was very good, the people great, and the art work was exceptional.**

**Jack and I visited Joe Huettl in Dec. We had a nice visit and shared many memories. Joe is planning to be at the '07 Nats. We plan to go to Lawrenceville next fall. We have many fond memories of the contest. Who knows, might even get thrown out of the local restaurant again.**

**This year,2007, is the 70th anniversary of the club. The plan is to have some type of gala event, but nothing has been set in concrete. Possibly an all day Bar-B-Q at the home of the pres. Any ideas? Let us know. Maybe we can get Don Monson to give us a big BANG.**

**We are still welcome at Harley's Sod farm. Many thanks to the entire Johnson family. Their generosity has kept our club flying. A special thanks to Kevin Mann. He allows retrieving on his property and is always on the lookout for our lost models.**

**The club's annual auction will once again be at the Feb. meeting. Aaron Petersen, our famous auctioneer, will once again do the honors. Dale tells me there was a McCoy 60 that was auctioned every year for 20 years straight. The club made money on that engine. Bring that stuff you purchased last year and we'll resell it. Bob Woodhouse, bring those Model Aviation issues and we'll sell them again.**

**The ice fishing has been good this 'winter'. Only 5 inches of ice, but enough to hold your overweight president.**

**See you at the auction and the fun flys.**
**GARY OAKINS**

## *Mini FAI contest, June 2 and 3rd*

**It has been agreed upon to get more participation that the F1G and F1H events will be expanded to include ALL rubber and towline glider models. So bring your models to participate in these events. The same proposal was turned down to add all power models to the 1/2A/F1J event.**

## Junior FAI qualification Contests:

**The MMAC Mini-FAI, June 2nd, and Summer Meet , July 7th, have been approved by the Junior program committee as qualification meets. So any junior flyer can get credit for their flights toward the prime NATS selection contests. They need 2 contests plus doing well at the NATS to get on the Junior FAI team. The Junior cannot be over 18 years old as of 2008. There is no entry fee for this program, and for power flyers there is a free Cyclon engine program along with F1P kits. Events are F1A, F1B, and F1P.**

# *The ¼ A NOS Hustler*

## *By Dave Edmonson*

At the 2006 NATS, Brad Bane from Lyndonville, New York showed up with a beautiful TD 020 powered scaled down Hustler. Dennis Sussman and me talked with Brad about it, and watched it fly. It flew just like the big Hustlers and won first place in the 1/4A NOS event.

I got further details from Brad a few months later, and had Jim O'Reily scale down the plans for this little beauty.



Here is the write up from Brad:
I was very pleased to see the Nats pics and the nostalgia pics of the Hustler.

Here's the data on the little Hustler. The wing is 165sq" (the same as as Campbell,s t-bird kit) . That works out to a chord of 5" and a span of 32" .

I used 1/32 for all the ribs in the wing and stab and omitted the last spar on the bottom of the wing as there just was not enough room to include it near the TE. I used slightly oversize 1/16 sq for all the wing spars and a 1/2 inch wide TE. The LE is 3/16 sq. I can't emphasize enough to use light but strong wood. I spent as much time hunting down good wood as I did building. But it all pays off as the total weight turned out to be 3.5 oz ready to fly. I made the tip blocks out of mush wood and hollowed them by holding them up to a light bulb and carving till they appeared translucent. Absolutely nothing can be given a free ride. I covered the wing with ultracote light. The stab has a 4.75 inch chord and a span of 13.75 . The spars are 1/16 sq and the LE is 1/8 sq The TE is 3/8wide.And it is covered with microlite film. The finished weight of the stab is 8gr and the weight of the wing is 22.5gr The fuselage is 66gr. The fuselage uses 1/20 sides and 1/20 rudder. again, pick your wood with care. I covered the fuselage with jap tissue and epoxy painted the front to the back of the pylon. I use a texas timer micro timer and a penny balloon tank put inside the stock plastic tank. As for the engine, I ported and polished it so that it turns 21,500 on 30% red max fuel. with an APC prop. I could get more if I upped the nitro but plugs are getting expensive and hard to find. By opening up the bypasses in the engine I get an increase of 2000 rpm. Use a 3/32 diameter diamond grinder in a moto tool and just hog them out but do not change the timing. I also move the CG .25 in forward to compensate for the scale factor and tail volume on the smaller aircraft. If I had to build another one, the only thing I would change is to add slightly more dihedral at the center dihedral joints because due to scaling the stock dihedral is very minimal. It works the way it is, but I suspect it would just be a little more stable in the climb. As for trimming, I fly with all panels flat . It climbs and glides left and just a tiny amount (1/32) of right tab. and decalage as shown on the plans.

I had a ball flying this little beast at the Nats and am definitely glad I chose this design. Worth the extra effort and it definitely outflies and ouglides a …. T-Bird. I hope all this info helps to get you inspired to build one. I'd like to see a couple more of these at the Nats next year. Again let me thank you for the pics and let me know if you need any more info. I promise to answer promptly if the creek doesn't rise, the wind doesn't blow, and my cable connection doesn't break! Brad

Further notes by Dave Edmonson:

For covering material, use Microlite Lite for the wings and stab. This is also called Solarfilm "SoLite". It is ½ the weight of Ultracote Lite, and also has adhesive, and very easy to apply. The "SoLite" film is the product of Solarfilm out of Great Britain. It is marketed as several other names including MicroLite. I have extra sets of plans for those interested.

PS: I watched Brad's little Hustler fly at the NATS, and it flew just like the FAI version that I flew back in the late 1950s and early 1960s. Same power and glide pattern. Brought tears to my eyes.I

# *Minneapolis Model Aero Club*

## *2007 Outdoor Free-Flight Contest Schedule*

All Contests are held at Harley's Sod Farm, North Branch, Minnesota: *40 miles North of the Twin Cities on US 35, 4 miles east on MN 95, left on Jeffery Ave.*

**Events: Free Flight Events per AMA, NFFS, and FAI rules** Must be an AMA member and NFFS membership encouraged. **Call or email Dave Edmonson for more detailed directions or contest questions: Tele: 612-220-5239 email: dedmonson@comcast.net**

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### *Saturday, May 5 "Spring Meet-Gone West" Jim Ladwig CD*

**Events: #1. Mulvi #2. P-30 #3. 1/2A Gas #4. ABGas #5. 1/2A Nos**
**#6. A/BC Nos #7. HLG/CLG #8. Towline Glider #9. Embryo #10. Junior Event**
**#11. 1/4ANos/020Rep #12 Classic Gas(1/2A, AB,CD) [2009 FAI Qualifications for F1A, B, C]**

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### *Saturday, June 2 "Mini-FAI Contest" Gary Oakins, CD*

(Five 1 hour rounds starting at 9:00 AM to 12:00 and 1:00 to 3:00 PM, picnic following)
**Events: #1. F1G/F1B/Mulvi** #2. A1/F1H/F1A/Classic Towline****
**#3. F1P/F1J /1/2A** #4. HLG/CLG # 5. P-30 #6. Junior Event (no rounds)**
****Junior FAI Team "PLUS" Qualifier Contest, 7 rounds total**

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### *Sunday, June 3 "Almost Summer Contest" Dennis Sussman CD*

**Events: #1. Mulvi #2. Embryo #3.1/2A Gas #4. CD Gas #5. 1/2A Nos #6. ABC Nos**
**#7. 1/4Nos/020 Rep #8. Jr. Event #12 Classic Gas(1/2A, AB,CD) [2009 FAI for F1A, B, C]**

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### *Saturday, July 7 "Summer Meet" Don Monson, CD*

**Events: #1. Mulvi #2. P-30 #3. 1/2A Gas #4. AB Gas #5. 1/2A Nos**
**#6. ABC Nos #7. HLG/CLG #8. PeeWee 30 #9. Classic gas (1/2A, AB, CD)**
**#10. Junior Event [2009 FAI Quals. for F1A, B, C, JUNIOR FAI "PLUS"Qualifier competition]**

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### *Saturday, August 18"Almost Silent Meet" Dale MendenhallCD*

**Events: #1. Embryo #2. Mulvi #3. P-30 #4. F1G #5. HLG/CLG combined**
**#6. 1/2A Gas #7. CD Gas #8. NFFS Towline #9. Junior Event**
**#10. Classic gas (1/2A, AB, CD) [2009 FAI Qualifications for F1A, B, C]**

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### *Saturday, September 15 "Fall Mini Model" Dave Edmonson CD*

**Events: #1. Embryo #2. P-30 #3. PeeWee 30 #4. ¼ Nos Gas/.020 Rep #5. HLG/CLG**
**# 6. Old Time Rubber 7. ABCD Gas #8. Jr. Event #9. ABCD Nos #10. Classic Gas(1/2A,AB,CD)**

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### *Saturday, Oktober 6 "Oktoberflug" Dave Braun CD*

**Events: #1. Mulvi #2. P-30 #3. 1/2A Gas #4. ABCD Gas #5. 1/2A Nos**
**#6. AB/CD Nos #7. HLG/CLG #8. Embryo #9. Junior Event**

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### *Saturday, October 27 "Turkey Shoot"*

*MMAC 2007 Indoor Flying Sessions:*

*Bloomington Armory…….Mondays!*

*Flying time from 7 to 9PM, but come early and stay late..try 5:30 to 10:00PM*

1. Feb. 26 (Mon.) 7 – 9PM… Contest for
   a. Mini-stick and Easy B…
   b. ARF + Feather
   c. Feather
   d. Pennyplane
   e. FAC, Greg Thomas to announce events.

1. Mar. 12 (Mon.) 7 – 9PM

2. Apr. 9 (Mon.) 7 – 9PM Contest for events: TBD

3. May 7 (Mon.) 7 – 9 PM
   Funfly after first Outdoor contest on prior Saturday.