



**Meetings:** (monthly) 2nd Wednesday at 7:00 p.m. **Clariti Advanced Vision Correction**  
**481 S. Landmark Ave., Bloomington, Indiana**

*\*Club Meetings June - September, Held At The Club's Flying Site*

**Flying Site:** 1 mile East of SR 37 on Wylie Road, Bloomington, IN

**Website:** <http://www.monroecountyrcc.org>

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## June 2008 Edition

### May's Meeting Notes...

The May meeting of the Monroe County R/C Club got underway at 7:10:25 in Dr. Matt's new office after distribution of the annual bulk fuel order. After the stragglers wandered in there were thirty-two people in attendance, according to new member Brad Byers & Tim Mellott, who were doing the counting.

The wrap up on the fuel order was the first order of business. It was a complicated affair this year & there are several people to thank. Club member Rick Mowery of RC Jets Unlimited became a dealer for Wildcat Fuels this Spring & he went with Delbert Davis, club treasurer, who was pulling Randy Byers's trailer, to Kentucky to pick up the order that was prepared by Mark Sexton. They loaded the trailer & pulled it back to Jim Scott's barn in Bloomington. Jim pulled the trailer from his barn over to Matt's new office & helped Mark distribute the fuel while Delbert collected the money. After the trailer was empty, Randy hooked on to the trailer to take it home. As far as we can tell so far, only one mistake was made during the process. Somebody got Dave Poland's 4-stroke fuel instead of the 2-stroke fuel that he ordered. The boys had pretty well figured out before the end of the evening and were making plans to get the proper flavor fuel to both parties. Thanks to all involved for your effort!

Rick Hill & Michael Friesel are still working on the new signs for our club sponsors. Their first priority will be to get the new sponsor's signs up that don't already have a sign & take down the old signs of previous sponsors who haven't renewed. It's a big job & will take some time. Thanks Rick & Michael!

Rick & Michael have also been working to see if some area libraries would be interested in getting the new "Park Pilot" magazine from the AMA. Michael reported that the Ellettsville library wasn't really interested and Rick reported that the Martinsville library didn't return his call or email so they must not be interested either. Thanks for trying gentlemen. We made the effort & that's what counts.

We had a good time presenting R/C model aviation to the Cub Scouts & the Boy Scouts at the Scout-O-Rama in Martinsville on April 26th. It was a little cool in the shade & very windy. The scouts enjoyed crashing the aircraft on the computer simulators and checking out the static model display. We got in

several demo flights but the wind was pretty fierce & the runway kinda narrow. Deven Mellott was there participating with the Boy Scouts & we saw scout Walter Friesel there participating in the Pinewood Derby. Thanks to all the club members who participated!

Airshow Chairman Dr. Matt Fornefeld reported that he is still studying the possibility of having a "TAG like" program in conjunction with our annual airshow. It won't be easy to do both programs on the same day or at the same time but Matt is working on a plan.

Mark reported that our rented outhouse has had it's Spring cleaning & is now back on a regular service schedule for the flying season. Please make sure it is locked if you are the last one leaving the field!

Mark reported that he has talked with the adjacent property owners to our field and gained permission for Tim Sparks to erect a couple of "pylons" out in their fields eight-hundred feet East & West from the pilot's box for racing practice. They will not interfere with normal flying & will be removed before the Fall harvest.

Thanks again to Dave Poland for mowing & rolling the runway between the Spring rains.

Thanks also to Bruce, Mark, Al, & Lane for filling the ruts & planting grass seed on the bad spots.

Dennis Friesel reported that he has not come up with the proper wording for the new visitor notice signs that will be placed along the pit fence yet but he will be working on it.

Steve Shoop reported that his fly-in on May 3rd was a little windy but several pilots flew anyway. There was no shortage of food at the event & Steve says the wind is not an issue & you don't even need an aircraft to practice eating. Thanks for having us out to your place Steve!

Mark reminded everyone that the mowing season has started & Thursday is mowing day at the club field (weather permitting). Please make way for Michael Sexton when he shows up to mow. That's how Nebo Thursdays got started in Martinsville. Many of us fly at Nebo Memorial R/C Field on Thursday evenings & leave the Wylie Road field free for Michael to mow.

Tuesday evenings at the club field are set aside for training. Instructors will be there to help you and answer your questions. Buddy boxes & cords will be available if needed. Please come out & take advantage of this opportunity if you need some help! The instructors are making an effort to be available so you should take advantage of it & give them something to do.

Thanks to Dr. Matt Fornefeld for making his new facility available to the club to hold it's monthly membership meetings! It's a nice room & is easy to get to in Bloomington.

**The June Club Meeting will be held at the club flying site starting at 7:00 P.M.!**

We have some visitors from New York. A group of graduate students are going to collect air samples over the forest in Monroe County using a radio controlled aircraft. They are working for the Geography Department at IU and came to our field to test their equipment. Dennis Friesel volunteered to help them & fly their airplane for them. There were some questions about the AMA rules and the weight of their airplane. There was also an issue about the fact that the aircraft had GPS equipment onboard & could be flown beyond the line of sight. Dennis took the group & their equipment to Muncie & met with Greg Haghn at the AMA headquarters facility. Mr. Haghn weighed the aircraft & determined that it was within the AMA guidelines without a special exemption, as long as the remote piloting electronics were not installed. The club voted to give the group a one month membership exemption and permission to fly from our field as long as the aircraft conformed to the AMA rules. Club member Lane Jorgensen is assisting also.

We have three new members & two more late renewals of previous members. Please welcome new members David Torphy, Brad Lettelleir, & Brad Byers. David is Mark Sexton's son-in-law but we won't hold that against him because his family has a long aviation history in Monroe County. Brad Lettelleir hangs out with David but that doesn't make him all bad. Both of them have been checked out by Mark & cleared for solo flight. Brad Byers has a tougher way to go. He is the nephew of Randy Byers & is married to Randy's niece which is Ralph's (Randy's wife Judy) sister's daughter. Now that you're completely confused, Brad is currently training under the AMA Intro Pilot Program with his Goldberg Eagle 2 trainer & has been flying electric helicopters with us in the Paragon Gym. Megan Barlow was mentioned in last month's newsletter but was "officially" voted into the club at the May meeting. The two previous members who renewed late were Ron Glasscock & Don Scales. Please extend a warm welcome to the new members & a welcome back to Ron & Don!

The meeting was closed at 8:03:36

### Interesting Bits...

Tina Rogers has a new job at the Goodwill store in Martinsville. You may want to stop in & see her for a scale pilot for your next aircraft. Randy Byers purchased a naked Barbie doll for \$1.99 (with his senior discount). After trying to explain to the other shoppers in line that it was for a model airplane (really), Tina helped him look for some clothes & accessories to go along with the doll. Thanks Tina for keeping Randy off the sex offender registry!

Carl Ward submitted this decimal equivalent chart & thought it might be helpful to other modelers. If you're not a machinist it's not a simple matter to figure out what size to drill a hole to tap a 6-32 thread or if you pick up a drill & measure it with your calipers at .201" how would you know that it's a #7 tap drill for a 1/4-20 thread? Thanks Carl! This chart will be available on the club web page as a PDF file that you can download, enlarge, & print for your shop.

**TAP DRILL CHART**

The NC and NF tables recommend tap drills that result in approximately 75% thread height based upon drill diameter. In most materials, however, drills will produce a hole slightly larger than the drill diameter.

The sizes in actual thread weight percentages resulting from the probable hole size each drill will cut.

Thread heights above 50% of thread do not increase the strength of a threaded joint and it is an advantage to favor the use of larger drills.

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Machine Screw Sizes NC & NF												
Nominal Size	Recommended Tap Drill	Probable Hole Size	Actual Thread	Nominal Size	Recommended Tap Drill	Probable Hole Size	Actual Thread	Nominal Size	Recommended Tap Drill	Probable Hole Size	Actual Thread	
0-80	3/64	.0468	.0484	71	1/4-20	7	2010	2048	70	1/4-20	7	2010
1-64	53	.0695	.0810	59	5/16-18	F	2570	2608	72	3/8-16	5	3125
1-72	53	.0695	.0810	59	3/8-16	F	2570	2608	72	3/8-16	5	3125
2-56	50	.0700	.0717	62	5/16-24	I	2720	2761	67	5/16-24	I	2720
2-64	50	.0700	.0717	70	3/8-16	5	3125	3169	67	3/8-16	5	3125
3-48	47	.0785	.0804	69	3/8-24	Q	3320	3364	71	3/8-24	Q	3320
3-56	46	.0810	.0829	69	7/16-14	U	3680	3726	70	7/16-14	U	3680
4-40	43	.0890	.0910	65	7/16-20	25/64	3906	3952	65	7/16-20	25/64	3906
4-48	37	.0938	.0958	60	1/2-13	27/64	4219	4269	73	1/2-13	27/64	4219
5-40	38	.1015	.1038	65	1/2-20	29/64	4531	4579	65	1/2-20	29/64	4531
5-44	37	.1040	.1063	63	9/16-12	31/64	4844	4892	68	9/16-12	31/64	4844
6-32	36	.1065	.1091	71	9/16-18	33/64	5156	5204	58	9/16-18	33/64	5156
6-40	32	.1130	.1156	69	5/8-11	17/32	5313	5362	75	5/8-11	17/32	5313
8-32	29	.1360	.1389	62	5/8-18	37/64	5781	5831	58	5/8-18	37/64	5781
8-36	29	.1360	.1389	70	3/4-10	21/32	6553	6613	68	3/4-10	21/32	6553
10-24	26	.1470	.1502	66	3/4-16	68/128	6875	6925	72	3/4-16	68/128	6875
10-32	21	.1590	.1622	68	7/8-9	49/64	7656	7708	72	7/8-9	49/64	7656
12-24	18	.1770	.1805	66	7/8-14	13/16	8125	8177	62	7/8-14	13/16	8125
12-16	15	.1800	.1835	70	1-12	59/64	9219	9279	67	1-12	59/64	9219

  

TAPER PIPE TAPS											
Nominal Size	Tap Drill	NPT	NPTF								
1/16-27	D	D	D								
1/8-27	D	D	D								
1/4-18	7/16	7/16	7/16								
3/8-18	9/16	9/16	37/64								
1/2-14	45/64	45/64	45/64								
3/4-14	29/32	29/32	59/64								
1-11 1/2	1 3/64	1 3/64	1 5/32								
1 1/4-11 1/2	1 31/64	1 31/64	1 1/2								
2-11 1/2	1 47/64	1 47/64	1 47/64								
2 1/2-8	2 5/8	2 5/8	2 41/64								
3-8	3 1/4	3 1/4	3 17/64								

  

STRAIGHT PIPE TAPS											
Nominal Size	Tap Drill	NPS	NPSF								
1/16-27	1/4	1/4	1/4								
1/8-27	11/32	11/32	11/32								
1/4-18	7/16	7/16	7/16								
3/8-18	37/64	37/64	37/64								
1/2-14	23/32	23/32	23/32								
3/4-14	59/64	59/64	59/64								
1-11 1/2	1 5/32	1 5/32	1 5/32								
1 1/4-11 1/2	1 1/2	1 1/2	1 1/2								
1 1/2-11 1/2	1 3/4	1 3/4	1 3/4								
2-11 1/2	2 3/32	2 3/32	2 3/32								

  

DECIMAL EQUIVALENTS											
Inch-Wire	Decimal	Inch-Wire	Decimal	Inch-Wire	Decimal	Inch-Wire	Decimal	Inch-Wire	Decimal	Inch-Wire	Decimal
1mm	.039	3mm	.0354	48	.0860	73	.1540	4	.2090	5/16	.3125
2mm	.0787	64	.0039	44	.0860	73	.1540	4	.2090	5/16	.3125
3mm	.1181	63	.0370	42	.0935	22	.1570	7/32	2187	Q	.3125
4mm	.1575	62	.0360	3/32	.0937	4mm	.1575	2	2210	P	.3220
5mm	.1970	61	.0350	41	.0960	21	.1590	1	2280	21/64	.3281
6mm	.2364	60	.0340	40	.0980	20	.1610	A	2340	Q	.3320
7mm	.2758	59	.0410	38	.1015	18	.1695	18/64	2344	R	.3390
8mm	.3152	58	.0420	37	.1040	17/64	.1719	B	2390	S	.3480
9mm	.3547	57	.0430	36	.1065	17	.1730	C	2420	9mm	.3543
10mm	.3942	56	.0465	7/64	.1094	16	.1770	D	2460	T	.3600
11mm	.4337	55	.0495	19	.1160	15	.1860	15/64	2464	11mm	.3600
12mm	.4732	54	.0520	34	.1110	14	.1820	F	2570	U	.3680
13mm	.5127	53	.0550	33	.1130	13	.1860	13/64	2582	11/32	.3437
14mm	.5522	52	.0585	32	.1160	3/16	.1876	17/64	2664	V	.3770
15mm	.5917	51	.0625	3mm	.1181	12	.1890	H	2660	V	.3880
16mm	.6312	50	.0655	31	.1200	11	.1910	J	2720	35/64	.3906
17mm	.6707	49	.0670	1/8	.1260	10	.1935	7mm	2758	10mm	.3937
18mm	.7102	48	.0700	3/16	.1285	9	.1960	9	2770	X	.3970
19mm	.7497	47	.0730	29	.1360	5mm	.1968	K	2810	X	.4040
20mm	.7892	46	.0765	28	.1405	8	.1990	9/32	2812	13/32	.4062
21mm	.8287	45	.0795	27	.1440	13/64	.2031	M	2950	27/64	.4219
22mm	.8682	44	.0810	25	.1485	5	.2055	N	3020	27/64	.4375
23mm	.9077	43	.0820	24	.1520					23/32	.4187

## Event Calendar

- May 31 "Nothin But Cubs" Fly-In (Club Field)
- June 11 Monthly Club Meeting (at the field)
- June 21 2nd Annual 4-Stroke Event (Club Field)
- June 28 2nd Annual "Charlie Built" Fly-In at Nebo Memorial R/C Field (Martinsville)
- July 9 Monthly Club Meeting
- July 19 Atterbury Warbird Fly-In
- July 26-27 Hoosier Hospitality Sr. Pattern Contest (Atterbury)
- July 28-August 3 Airventure "Oshkosh"
- August 10 Club Picnic (Club Field)
- August 13 Monthly Club Meeting
- August 29-31 Dayton Giant Scale R/C Air Show
- September 5-7 Heartnut Fly (Atterbury)
- September 10 Monthly Club Meeting
- September 14 Annual Club Air Show (Club Field)
- October 8 Monthly Club Meeting
- October 11 Nebo Fall Festival Fly-In
- October 12 Martinsville Fall foliage Festival Parade
- October 18 Steve Shoop's Chili Cook-Off / Fly-In
- October 18 Indy Area Swap Meet & Hobby Expo
- November 12 Monthly Club Meeting
- December 10 Annual Christmas Dinner/Meeting
- February 22, 2009 Annual Club Swap Meet

Don't forget to support our sponsors!