



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

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

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

Machine Screw Sizes NC & NF										Fractional 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	Nominal Size	Recommended Tap Drill	Probable Hole Size	Actual Thread				
0-80	3/64	.0468	.0484	71	1/4-20	7	.2010	.2048	70	1/2-13	27/64	.4219	.4269	73	3/8-16				
1-64	53	.0595	.0610	59	5/16-18	F	.2570	.2608	72	3/8-16	5/16	.3125	.3169	67	3/4-12				
1-72	53	.0595	.0610	59	3/8-16	1	.2720	.2761	67	1/2-13	Q	.3320	.3364	71	1-8				
2-56	50	.0700	.0717	62	5/16-24	I	.2720	.2761	67	1/2-13	Q	.3320	.3364	71	1-8				
2-64	50	.0700	.0717	62	3/8-16	5/16	.3125	.3169	67	1/2-13	Q	.3320	.3364	71	1-8				
3-48	47	.0785	.0804	69	3/8-24	Q	.3320	.3364	71	1/2-13	Q	.3320	.3364	71	1-8				
3-56	46	.0810	.0829	69	7/16-14	U	.3680	.3726	70	1/2-13	Q	.3320	.3364	71	1-8				
4-40	43	.0890	.0910	65	7/16-20	25/64	.3906	.3952	65	1/2-13	Q	.3320	.3364	71	1-8				
4-48	42	.0938	.0958	60	1/2-13	27/64	.4219	.4269	73	1/2-13	Q	.3320	.3364	71	1-8				
5-40	38	.1015	.1038	65	1/2-20	29/64	.4531	.4579	65	1/2-13	Q	.3320	.3364	71	1-8				
5-44	37	.1040	.1063	63	9/16-12	31/64	.4844	.4892	68	1/2-13	Q	.3320	.3364	71	1-8				
6-32	36	.1065	.1091	71	9/16-18	33/64	.5156	.5204	58	1/2-13	Q	.3320	.3364	71	1-8				
6-40	32	.1130	.1156	69	5/8-11	17/32	.5313	.5362	75	1/2-13	Q	.3320	.3364	71	1-8				
8-32	29	.1360	.1389	62	5/8-18	37/64	.5781	.5831	58	1/2-13	Q	.3320	.3364	71	1-8				
8-36	29	.1360	.1389	70	3/4-10	21/32	.6563	.6613	68	1/2-13	Q	.3320	.3364	71	1-8				
10-24	26	.1470	.1502	62	7/8-9	1/8	.8750	.8825	73	1/2-13	Q	.3320	.3364	71	1-8				
10-32	21	.1590	.1622	68	7/8-9	49/64	.7656	.7708	72	1/2-13	Q	.3320	.3364	71	1-8				
12-24	18	.1770	.1805	66	7/8-14	13/16	.8125	.8177	62	1/2-13	Q	.3320	.3364	71	1-8				
12-16	15	.1800	.1835	70	1-12	59/64	.9219	.9279	67	1/2-13	Q	.3320	.3364	71	1-8				

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								
1 1/2-11 1/2	1 47/64	1 47/64	1 47/64								
2-11 1/2	2 13/64	2 13/64	2 7/32								
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 7/32	2 7/32	2 7/32		

DECIMAL EQUIVALENTS											
Inch-Wire	Decimal	Inch-Wire	Decimal	Inch-Wire	Decimal	Inch-Wire	Decimal	Inch-Wire	Decimal	Inch-Wire	Decimal
1mm	.039	3mm	.0354	4	.0860	7	.2743	8	.2540	9/16	.3125
2mm	.0787	5mm	.0625	48	.0890	62	.2362	11	.4300	5/8	.3125
3mm	.1181	6mm	.0370	42	.0935	22	.1570	7/32	2187	Q	.3160
4mm	.1575	8mm	.0320	3/32	.0937	4mm	.1575	2	2210	P	.3230
5mm	.1970	10mm	.0254	41	.0960	21	.1590	1	2280	21/64	.3281
6mm	.2362	12mm	.0200	40	.0980	20	.1610	Q	3320	13mm	.5118
7mm	.2743	14mm	.0150	39	.0995	19	.1630	18/64	3364	15mm	.5118
8mm	.3125	16mm	.0100	38	.1015	18	.1655	6mm	2362	11/32	.5312
9mm	.3517	18mm	.0075	37	.1040	17/64	.1719	5	2380	S	.5480
10mm	.3906	20mm	.0050	36	.1065	17	.1730	C	2420	9mm	.3543
11mm	.4297	22mm	.0035	35	.1090	16	.1750	D	2460	7	.3543
12mm	.4688	24mm	.0025	34	.1110	14	.1820	F	2570	U	.3680
13mm	.5079	26mm	.0018	33	.1130	13	.1845	1/8	2610	3/8	.3750
14mm	.5470	28mm	.0013	32	.1160	3/16	.1875	17/64	2656	V	.3770
15mm	.5861	30mm	.0010	31	.1181	12	.1890	H	2660	W	.3880
16mm	.6252	32mm	.0007	30	.1200	11	.1910	J	2720	35/64	.3880
17mm	.6643	34mm	.0005	29	.1220	10	.1935	7mm	2758	10mm	.3937
18mm	.7034	36mm	.0004	28	.1240	9	.1960	9	2770	X	.3970
19mm	.7425	38mm	.0003	27	.1260	8	.1985	K	2810	X	.4040
20mm	.7816	40mm	.0002	26	.1280	7	.2010	9/32	2812	13/32	.4062
21mm	.8207	42mm	.0001	25	.1300	5mm	.1968	K	2810	X	.4130
22mm	.8598	44mm	.0001	24	.1320	4	.1990	9/32	2812	13/32	.4219
23mm	.8989	46mm	.0001	23	.1340	3	.2015	M	2950	27/64	.4219
24mm	.9380	48mm	.0001	22	.1360	2	.2040	1/4	3000	11mm	.4331
25mm	.9771	50mm	.0001	21	.1380	1	.2065	N	3020	7/16	.4375
26mm	.1016	52mm	.0001	20	.1400	1	.2090	N	3020	23/32	.4375
27mm	.1055	54mm	.0001	19	.1420	1	.2115	N	3020	23/32	.4375
28mm	.1094	56mm	.0001	18	.1440	13/64	.2031	M	2950	27/64	.4375
29mm	.1133	58mm	.0001	17	.1460	1/8	.2056	N	3020	7/16	.4375
30mm	.1172	60mm	.0001	16	.1480	5	.2081	N	3020	23/32	.4375
31mm	.1211	62mm	.0001	15	.1500	15/64	.2097	N	3020	23/32	.4375
32mm	.1250	64mm	.0001	14	.1520	1	.2122	N	3020	23/32	.4375
33mm	.1289	66mm	.0001	13	.1540	1	.2147	N	3020	23/32	.4375
34mm	.1328	68mm	.0001	12	.1560	1	.2172	N	3020	23/32	.4375
35mm	.1367	70mm	.0001	11	.1580	1	.2197	N	3020	23/32	.4375
36mm	.1406	72mm	.0001	10	.1600	1	.2222	N	3020	23/32	.4375
37mm	.1445	74mm	.0001	9	.1620	1	.2247	N	3020	23/32	.4375
38mm	.1484	76mm	.0001	8	.1640	1	.2272	N	3020	23/32	.4375
39mm	.1523	78mm	.0001	7	.1660	1	.2297	N	3020	23/32	.4375
40mm	.1562	80mm	.0001	6	.1680	1	.2322	N	3020	23/32	.4375
41mm	.1601	82mm	.0001	5	.1700	1	.2347	N	3020	23/32	.4375
42mm	.1640	84mm	.0001	4	.1720	1	.2372	N	3020	23/32	.4375
43mm	.1679	86mm	.0001	3	.1740	1	.2397	N	3020	23/32	.4375
44mm	.1718	88mm	.0001	2	.1760	1	.2422	N	3020	23/32	.4375
45mm	.1757	90mm	.0001	1	.1780	1	.2447	N	3020	23/32	.4375

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!