



THE TRANSMITTER

FEBRUARY
1983

EDITORS

Steve Schoening - President
Mike Kukovec - Vice President
Chuck Weibler - Secretary
John Bednarz - Treasurer

Steve Schoening - 832-6616
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****WHAT'S NEXT****

February Entertainment Meeting

Our February Entertainment Meeting will be held on Wednesday, February 9th at the Addison Public Library starting at 7:15 PM. The movie "Those Marvelous Miniatures" will be shown.

February Business Meeting

The February Business Meeting will be held on Wednesday, February 23rd at the Addison Library starting at 7:15PM. Plans for the upcoming season and other meaningful topics will be on the agenda.

****IN THE NEWS****

Club Jackets and Shirts

Attached to this newsletter will be an order form for club jackets, shirts and hats. Indicate the items you wish and send it along with your check for the proper amount to Chuck Weibler, 569 Fern Av. Elmhurst, IL 60126 or place your order at one of the February meetings. We will be accepting orders thru February. The jackets, shirts and hats will be available in March. The jacket will be yellow, wind-breaker style and have our club logo on the back with your 1st name on the front. You have your choice of either lined or unlined. Shirts will be T-shirt design, yellow with our logo on the back. Hats will be like we currently have. Order now, we won't be placing another order until later on in the year.

1983 Membership Dues

Dues for the 1983 season were due on February 1st. They are the same as last year; \$20.00 for senior members and \$10.00 for junior members. A family plan is also available. Dues under the family plan will be senior member dues plus 25% of the senior member rate for each family member. Family members include the immediate family who reside at the same address. You may either pay your dues at one of the February meetings or send them to our treasurer: John Bednarz, 359 Highview, Elmhurst, IL 60126. Remember, if we don't receive your dues this month, this may be the last newsletter you receive.

January Meeting Minutes

Our January Business meeting was held on the 26th with 13 members and 5 guest present. Our treasury balance at the end of 1982 was \$272.77. As of 1/26/83 our balance was up to \$584.77. We had a guest speaker at this meeting by the name of John Lange. John is an authority on radio operations and has been working in conjunction with the AMA in regards to the new AMA frequencies and discussed this and other related topics. John Fahr had drawings available to the membership on how to make snow skies. John Sukup volunteered to donate a book to our club library "RCM Flight Training Course VOL. I. John

Lange indicated 5 frequencies that are used for local area pocket pagers that could cause problems to some of the new frequencies. These frequencies are: 72.220; 72.100; 72.420; 72.900; and 75.460. The club showed frequency flags that it will be providing to the membership. These flags will be for use with the new frequencies and will be designed for use in our transmitter impound stand. Members will still have to provide flags for their transmitters.

Raffle winners: Mike Pascucci.....Tack
John Bishop.....Timer
Jim Lee.....Al's Gift
Cert.

Meeting adjourned at 9PM.

Guest Speaker - John Lange

We were fortunate to have John Lange, a systems engineer for microwave communications, as our guest speaker at the January Business Meeting. John told us that there are a number of pocket pager services in our area that could cause us some interference at our field. John provided us with a list of these frequencies which we will keep with the membership frequency list. John also suggested that our club use a R/C frequency converter to monitor frequencies at our field to check for "glitches" and chase down interference. John has designed a number of frequency converters over the past several years and has available for sale these converters either in kit form or already built. More information will follow in future editions of the Transmitter, for more information, contact:

John R. Lange & Associates
P.O. Box 1395
Melrose Park, IL 60160
Telephone 1-312-344-9089

New RC Frequencies

On November 4, 1982, the FCC commissioners voted to grant new frequencies for RC aircraft, boats and cars. This was the direct result of the AMA petition to the FCC (this is a prime example of how the AMA works for us, the everyday modeler, so the club officers urge you to join the AMA).

The final rule is published in the Federal Register dated November 18, 1982 and became official on December 20, 1982. Essentially, this is how it works. Effective now we have 50 new aircraft frequencies and 30 new boat/car frequencies. In addition, we still have use of our current 7 channels for 5 years (up to Dec. 20, 1987). After Dec. 20, 1987, we can no longer use the current frequencies (72.080; 72.160; 72.240; 72.320; 72.400; 72.960 and 75.640 MHz). We must convert both transmitter and receiver to one of the new frequencies by that time.

Note: The AMA has recommended to the industry a frequency phase-in system which we recommend that all RC modelers follow (see page on "AMA Frequency Control System").

The 50 new Aircraft frequencies are:

72.010, 72.030, 72.050, 72.070, 72.090, 72.110,
72.130, 72.150, 72.170, 72.190, 72.210, 72.230,
72.250, 72.270, 72.290, 72.310, 72.330, 72.350,
72.370, 72.390, 72.410, 72.430, 72.450, 72.470,
72.490, 72.510, 72.530, 72.550, 72.570, 72.590,
72.610, 72.630, 72.650, 72.670, 72.690, 72.710,
72.730, 72.750, 72.770, 72.790, 72.810, 72.830,
72.850, 72.870, 72.890, 72.910, 72.930, 72.950,
72.970, and 72.990 MHz.

The 30 new boat/car frequencies are in the 75 MHz frequency band (75.410 to 75.990 MHz).

It is important to note the following: Currently, we operate our model aircraft on the following frequencies: 72.080, 72.160, 72.240, 72.320, 72.400, 72.960, 75.640 MHz sharing 72.160, 72.320 and 72.960 with boats and cars. Manufacturers Radio Service (paging systems, telephone Co. control circuits, etc) are also authorized to use the 72.080, 72.160, 72.240, 72.320 and 72.400 MHz frequencies. In addition, Special Industrial Radio Service (remote control of cranes, etc), Manufacturers Radio Service, and Railroad Radio Service are also authorized to use 75.600 (close to 75.640).

All of these additional users of our RC frequencies have probably caused interference at our field from time to time.

Note: The new 50 aircraft frequencies are not shared with any other users. However, we are secondary to other authorized radio operations in the 72-76 MHz band and to TV channels 4 and 5. This means that we must stop transmitting if we cause interference with any of these operations. Our R/C transmitter power output must not exceed 0.75 watts in the 72-76 MHz frequency band.

To sum it up, we now have 50 new narrow band frequencies to ourselves. This should supply us with enough frequencies to eliminate crowding of frequencies at the field and the ability to avoid potential interference from other land or mobile users. Our club will monitor (with your cooperation) what frequencies our members are using, and what are the frequencies to stay away from because of potential interference with industrial users due to very high power transmitters near our field.

New AMA Frequency Flags

In order to provide for a uniform frequency identification system, the S.R.C.B. will use the new AMA frequency identification system. The club

will provide free of charge to all club members, frequency flags for the impound stand. These flags will consist of a color coded block of wood (with channel numbers) attached to a dowel rod. All you have to do is to add your ribbons. We also suggest that you put your name on the ribbons. To obtain one of these new flags, contact either Steve Schoening or Chuck Weibler.

EDITORIAL

It has come to my attention that there is a former disgruntled club member who is bad mouthing our club and trying to convince some of you to drop out of our club and join his (club?). Contrary to any rumors you might have heard, we are not "a bunch of jerks who don't know what we're doing and will disband in a year or two". Our club is 64 members strong and we have a lot planned for this year. Our club is a FLYING CLUB not just a social club which sits around and talks about flying or reminiscences about the good old days. So if you haven't already done so, rejoin the S.R.C.B. and get involved. Remember, you make this club what it is!

FOR SALE

Two 3 channel single stick Kraft radios. One is a series 70 and the other is a series 71. Both units come with three KPS-12 servos, nicad batteries and charger. Switch harness and mounting board are also included. Both radios are on 72.240 MHz (red & White)
Asking \$50.00 each

Contact: Ron Martelet

evenings 366-5938
days 475-6035

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AMA FREQUENCY CONTROL SYSTEM

The AMA has recommended the following frequency phase-in system to ensure continued use of our existing 7 channels with addition of the new frequencies. (Aircraft Only):

72.010	72.330	72.710 (46)
72.030 (12)	72.350	72.730
72.050	72.370	72.750 (48)
72.070	72.390	72.770
72.080 *	72.400 *	72.790 (50)
72.090	72.410	72.810
72.110	72.430	72.830 (52)
72.130	72.450	72.850
72.150	72.470	72.870 (54)
72.160 *	72.490	72.890
72.170	72.510	72.910 (56)
72.190	72.530	72.930
72.210	72.550 (38)	72.950
72.230	72.570	72.960 *
72.240 *	72.590 (40)	72.970
72.250	72.610	72.990
72.270	72.630 (42)	
72.290	72.650	75.640 *
72.310	72.670 (44)	
72.320 *	72.690	

* existing channels

○ new AMA channels
(effective 1-1-83 to 1-4-88)

This list of frequencies and the phase-in channels should be self-explanatory! AMA has recommended that only channels 12, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56 and the existing 7 channels be used between the current wide band receivers and the new narrow band frequency spacing.

Note that no new frequencies are near the current frequencies. After five years, the current frequencies (72.080, 72.160, 72.240, 72.320, 72.400, 72.960 and 72.640) cannot be used by order of the FCC. We must retune both our transmitters and receivers to one of these new frequencies. AMA will authorize the use of additional channels after 5 years, so we will have more frequencies to use. Because our old receivers are wide band, AMA will probably authorize only alternate channels for the first 8 years. After 8 years, AMA will authorize all 50 channels, so our old wide band receivers cannot be used. We must buy a new narrow band receiver. Most of us, however, can probably use our old transmitters after they have been changed to one of the new frequencies because these transmit on narrow band already. Check with the transmitter manufacturer to make sure.

AMA Frequency Flag control system will be used by our club.

1. The existing 7 channel color identification system will not change.

72.080	white/brown
72.160	white/blue
72.240	white/red
72.320	white/violet
72.400	white/orange
72.960	white/yellow
75.640	white/green

Use these as you have used them in the past.

2. The new 11 channels will use both a channel number identification and a color code identification.

<u>CHANNEL</u>	<u>FREQUENCY</u>	<u>TOP FLAG</u>	<u>BOTTOM FLAG</u>
12	72.030	Brown(1)	Red(2)
38	72.550	Orange(3)	Gray(8)
40	72.590	Yellow(4)	Black(0)
42	72.630	Yellow(4)	Red(2)
44	72.670	Yellow(4)	Yellow(4)
46	72.710	Yellow(4)	Blue(6)
48	72.750	Yellow(4)	Gray(8)
50	72.790	Green(5)	Black(0)
52	72.830	Green(5)	Red(2)
54	72.870	Green(5)	Yellow(4)
56	72.910	Green(5)	Blue(6)

The top flag must be on top of your frequency stick and the bottom flag must be below it!

Our club is looking into the possibility of providing all members with the frequency stick and numbers. All you have to do is to add the appropriate colored ribbons. Note that the frequency flag numbers must be 1½" high and the ribbons should be approximately 1" wide by 16" long.

The frequency flag numbers also must be properly colored depending on the ribbon color:

<u>Color of Ribbon</u>	<u>Color of Number</u>
Black	White
Brown	White
Red	White
Orange	Black
Yellow	Black
Green	White
Blue	White
Violet	White
Gray	Black
White	Black

If you have any questions on the use of the old or new frequencies, or the use of the 27 or 53 MHz bands, contact Steve Schoening.

We will keep you posted as we receive more details. Also, we'll try let you know what the various Hobby Shops and Manufacturers recommend as to retuning your radios.