



THE FRANKFORD RADIO CLUB NEWSLETTER

PROFICIENCY THROUGH COMPETITION

CALENDAR

January 2010:

- 2-3 ARRL RTTY Roundup
- 9-10 No. Amer. QSO Party, CW
- 16-17 HA DX Contest
- 16-17 No. Amer. QSO Party, SSB
- 21 T.I.T.S. Meeting, Noon**
- 26 Rexy Meeting B, 8 PM**
- 29-31 CQ 160 Meter Contest, CW

February 2010:

- 7 North American Sprint, CW
- 13-14 CQWW RTTY WPX
- 14 North American Sprint, SSB
- 18 T.I.T.S. Meeting, Noon**
- 20-21 ARRL DX Contest, CW**
- 23 Rexy Meeting B, 8 PM**
- 26-28 CQ 160 Meter Contest, SSB
- 27-28 No. Amer. QSO Party, RTTY

March 2010:

- 6-7 ARRL DX Contest, SSB**
- 14 North American Sprint, RTTY
- 18 T.I.T.S. Meeting, Noon**
- 20-21 Russian DX Contest
- 20-22 BARTG HF RTTY Contest
- 23 Rexy Meeting B, 8 PM**
- 27-28 CQWW WPX Contest, SSB

CHANGES

New Member

KB3P

Michael Schafer
1726 Foxwood Dr.
Jamison PA 18929
kb3p@arrl.net
home 215-343-3061
work 215-249-9794

Deadline for February issue:

Sunday, January 24, 2010

President's Column

Greetings and Happy New Year to all.

We had a great turn out at the Pizza Blast this year. I believe the final attendance total was 39 including one new member who we voted in while eating pizza and drinking beer and soda. We beat last year's attendance by 11. If you weren't there, you missed a great time. Make a point not to miss it next year.

As we move into the new year, it's time to start focusing on the ARRL DX Contests. Make sure that everything is set up properly and working to its capacity. If something isn't working properly, there's still plenty of time to make things right. Don't wait until the last minute to discover a problem. Operate in the CQ 160 Meter contest later this month to have some fun while shaking down your logging software, your station in general and that band in particular.

Hopefully, we're coming out of the sun spot minimum doldrums. Who knows? We may even have some good propagation on 15 Meters in February and March.

I hope that 2010 is a terrific year for you and your families. **GO FRC!!**

73 de John, W8FJ



2010

MEETINGS

T.I.T.S. meeting—The Trexlertown International Transmitting Society meets on Thursday, January 21 at 12:00 noon. Location is the Hometown Diner on Route 222 in Trexlertown..

Rexy Meeting B—The Rexy Meeting B will meet at 8 PM on Tuesday, January 26.

FRC Pizza Blast Photos



Additional FRC Donations

K3MD/N3PUR (correction from N3PVR)
AA4GT (FL)
N2BA

FRC 2009 CQWW SSB SCORE SUBMISSIONS

Station	Class	Score
AA1K	14	926,120
AA3B	AA	2,861,904
K2AX	MS	2,391,786
K2CJ	AA	173,475
K2GN	AA	520,200
K2QPN	AA	67,890
K2SQS	AA	152,047
K2TTT	Q	33,363
K3FT	A	65,570
K3IPK	AA	954,134
K3MD	AA	1,321,098
K3OO	AA	139,893
K3PP	AA	2,357,040
K3SWZ	L21	71,900
K3TEJ	AA	703,425
K3VA	AA	156,400
K3WI	AA	652,914
K3WW	AA	3,833,082
K9RS	AA	1,188,728
KC2NB	AA	192,096
KD2HE	A	35,534
KP2M	MM	11,079,915
<i>Ops</i>	<i>N2TK W3FV</i>	
N1IBM	A	676,360
N2BA	A14	252,450
N2ED	AA	303,008
N2MM	AA	2,326,180
N2RJ	A	1,512,966
N2RM	MS	2,260,330
<i>Ops</i>	<i>N2RM K3ZV</i>	
N2SS	AA	420,134
N2VM	LA	12,464
N2WKS	AA	203,412
N3AD	AA	2,149,193
N3GNW	AA	526,320
N3KR	A	27,100
N3MX	AA	906,880
N3NA	AA	150,590
N3RJ	A	502,806
N3RS	AA	2,734,313
N3YW	LA	115,116
N3ZA	AA	1,472,868
NE3F	MM	4,400,704
<i>Ops</i>	<i>NE3F K3ATO N3OW N3QO W3CF</i>	
NQ3N	A	411,236
PJ4K	M2	14,471,079
<i>Ops</i>	<i>CX6VM K2NG N3BNA PJ4NX ZP5AZL ZP5VAY</i>	
V48M	A	4,195,337
<i>Op</i>	<i>K3NM</i>	

Station	Class	Score
VP2V/KN5H	M2	2,544,306
<i>Ops</i>	<i>KN5H N3DXX</i>	
VP5MDG	MS	6,509,475
<i>Ops</i>	<i>AD4J K2DM K3ZM W4GKA</i>	
VP5T	MM	12,172,000
<i>Ops</i>	<i>N2VW W2GD W2WAS WA2VYA</i>	
W0BR	AA	395,299
W1GD	AA	2,027,250
W2CG	M2	1,821,127
<i>Ops</i>	<i>W2CG W2EN</i>	
W2IRT	AA	1,566,864
W2JJ	AA	9,729
<i>Ops</i>	<i>WA2VUN</i>	
W2LE	AA	611,832
W2RD	AA	1,104,768
W2VQ	A	125,460
W2YC	M2	2,149,163
<i>Ops</i>	<i>W2YC KA2NDX N2CQ W0MHK</i>	
W2YR	AA	1,164,608
W3BGN	MS	4,389,216
<i>Ops</i>	<i>W3BGN K2TW</i>	
W3CC	AA	1,636,000
W3GK	AA	536,081
W3GM	AA	1,042,000
<i>Op</i>	<i>K3ND</i>	
W3IZ	AA	152,000
W3KB	AA	440,542
W3MF	MS	2,034,032
<i>Ops</i>	<i>W3MF K3PH</i>	
W3SQ	A	75,000
W6XR	AA	1,032,240
WB3FIZ	AA	554,838
WE3C	M2	13,762,350
<i>Ops</i>	<i>WE3C K3CT KQ3V N3RD NN3Q</i>	
WE3E	A	75,456
XU1KOH	MS	199,758
<i>Ops</i>	<i>NO2R XUITZG</i>	
Total		128,040,754

Is your score listed correctly? If not, contact K3WW immediately to get it corrected.

FRC 2009 CQWW CW SCORE SUBMISSIONS

Station	Class	Score
K2K	AA	4,232,345
<i>Op</i>	K2NG	
AA1K	A	4,115,530
AA3DF	LA	202,444
K2AX		4,134,570
K2CJ		642,805
K2GN	AA	542,775
K2QPN	AA	171,915
K2SG	AA	1,907,046
K2SQS	AA	292,098
K2TTT	AA	1,469,655
K3IPK	A	1,439,168
K3LR	MM	18,347,578
<i>Ops</i>	K3LR G0MTN K0DXC K3UA K8CX M0DXR N2NC N3GJ N3SD N6TV N9RV W5ZL	
K3MD	AA	2,152,860
K3ND	AA	1,345,000
K3OO	AA	744,772
K3PH	AA	3,187,250
K3PP	AA	1,393,881
K3QF	AA	2,410,365
K3WI	AA	1,408,751
K3WW	AA	5,825,568
K9RS	MS	6,584,576
<i>Ops</i>	K9RS N3DXX	
KC2NB	AA	122,060
KD3RF	MS	139,708
<i>Ops</i>	KD3RF K3FMQ KB3TIG KD3TB	
KP2M	M2	13,208,985
<i>Ops</i>	K3CT K3TEJ	
N1IBM	AA	612,612
N1RK	A	463,914
N2BA	AA	2,366,112
N2ED	AA	1,306,664
N2LT	A	3,521,520
N2MM	AA	3,819,230
N2RJ	A7	10,633
N2WKS	AA	906,231
N3AD	AA	4,045,860
N3GNW	AA	449,460

Station	Class	Score
N3MX	A	404,300
N3NA	AA	1,162,917
N3RJ	A	728,000
N3RS	AA	4,679,554
N3RW	1.8	151,498
N3ZA	AA	1,019,613
NE3F	MM	2,818,464
<i>Ops</i>	NE3F K3ATO N3BNA N3OW W3CF WA3WLH	
NQ3N	A	83,266
P40W	LA	5,323,656
<i>Op</i>	W2GD	
V26K	LA	6,516,940
<i>Op</i>	AA3B	
V47NT	A	11,231,424
<i>Op</i>	N2NT	
W1GD	AA	2,222,352
W2CG	M2	4,029,556
<i>Ops</i>	W2CG W2EN W2NO	
W2LE	AA	1,210,426
W2SQ	AA	50,000
W2YC	M2	4,624,650
<i>Ops</i>	W2YC AA2WN KA2NDX N2CQ W0MHK	
W2YR	AA	516,243
W3BGN	MS	5,932,675
<i>Ops</i>	W3BGN K2TW	
W3GKA	A	931,364
W3IZ	7	76,440
W3KB	A	703,296
W3SQ	AA	50,000
WE3C	M2	14,510,342
<i>Ops</i>	WE3C, W3FV, KQ3F, NN3Q, W8FJ, K3TUF	
WE3E	AA	90,860
XU7ACY	LA	1,405,325
<i>Op</i>	NO2R	
Total		164,000,302



Watt Meters

Fill ALL your Thruline® wattmeter needs at <http://www.nm3e.com>

Featuring new and used meters, elements, loads and more by BIRD® and Coaxial Dynamics.

73 Tim Brown NM3E 610-207-4865

By Blair Bates, K3YD

One of my time-wasting (err, self-educational) activities on the internet is visiting the websites of other contest clubs to read newsletters. It doesn't take as much time as you might think; few clubs issue a monthly newsletter anymore. What these newsletters contain is a lot of member-written articles about station building, antennas, and contest operating.

Let's look at the *YCCC Scuttlebutt* of December 2009: (<http://www.yccc.org/Scuttlebutt/2009/butt2011.pdf>) You may have to click a few links from the home page to get here. The articles begin with W1WEF's *Flotsam & Jetsam* column which reports on K1LI's antenna improvements for 160 and his discovery (like K3PP's) that RF can be hazardous to trees. Jack next describes some W1RM tricks for coax feed-line burial and closes with mention of a (legal) energy booster for those contest hours when the rate is slow and your body is screaming for a little sleep. The feature articles of the issue included N9NC's experiments with a Balanced Antenna Tuner used with a multi-band Vee Beam, and K1RX's construction of a 160 Meter 4-Square. (A vee beam might be just the signal improvement you're looking for if you have lots of land, one tall tree and your local government is dragging its feet on the engineering review of your tower application. Cheap, too.)

Looking back, the October 2009 issue of *Scuttlebutt* included an article by K1KP on home brewing "CATV Transformers: Matching 50 to 75 Ohms." If you have a good source for inexpensive CATV hardline, you may want to read this one. All these *Scuttlebutt* articles included a few imbedded photos to save text and to illustrate concepts

I also visited the PVRC website to read that club's latest newsletter. You can find it at: (<http://www.pvrc.org/newsletters/aug09.pdf>. Again, you may have to work a few links to get here.) This is a long issue with first-person accounts of participation in 21 different contests throughout the 2008-09 season, from August's WAE CW to the following May's WPX CW. Obviously, the articles include far more than the "Big Four" and reports on single-band, RTTY and VHF competitions. This compendium was written by 23 different operators, though K3ZO shared his ideas and experiences from six different contests. Rather than being just a recount of best run hours and mults, the articles discussed station and antenna hardware, efforts with SO2R, and even lessons learned from problems.

What's my point of mentioning newsletters from other contest clubs? Well, first of all, they are a good source of *free knowledge*.. Reading these newsletters is a far, far better use of time than watching the entertainment business gossip programs which are shown after the 6:30 PM network news.

More importantly, there is a lot of accumulated knowledge and experience within the ranks of FRC, just as there is within YCCC and PVRC. If their members can share ideas and experiences, we should be able to do the same—even better!

As an example, think about what you've done in the last year:

- ◆ Did you buy a new HF radio? If so, why that one? How did you configure it? Do you have any buyer regrets about the radio's performance or ergonomics, or is it the best radio you've ever owned?
- ◆ Did you put up a new "killer" vertical for 160? What trick did you use to lay in the ## radials and feedline? How did you decide on ## radials? Why did you bury the radials, instead of elevating them? And . . . how well does it play?
- ◆ Or, did you have a blast working the Helvetia Contest and come in first in the US? Tell us about it, and enclose a photo of your certificate!
- ◆ What about a workbench hint? I'll share one here. Every time I disassemble a piece of equipment, I document the steps with my digital camera. That way, if I'm interrupted, I have a visual reference to look at, not just some fading recollections to rely on.

Some of this "stuff" shows up on the reflector, or is mentioned casually at meetings. But some members aren't on the reflector and far too few members get to most meetings. The **FRC** newsletter can be and should be a place to share and archive the **FRC** body of knowledge. Besides, I know our hard working editor will be happy to have and use your article. After all . . . he published this one, didn't he?

Reprinted from the ARRL Contest Update

"Gland" is the term for a plastic seal that waterproofs a cable's passage through a bulkhead. A good assortment of glands is available from Rose-Bopla. John W5NNK contributed this link and recommended the GD Multiple Sealing Rings when dealing with more than one cable.

If the ear cups in your headsets are pressing on your eyeglass temples, temple cushions may be the solution. Spectacle-sporting Bob N6TV says that he has used eyeglass temple cushions from David Clark with Heil Prosets and they helped a lot. (Thanks, Bob N6TV)

After a month of discussions the WRTC-2010 Judging Committee has announced the referees to be invited to Moscow in July 2010. Congratulations to the fifty contest veterans chosen to monitor the proceedings. Having been a WRTC referee three times, your editor knows this is not an easy job! (Thanks, Harry RA3AUU, WRTC-2010 Organizing Committee)

"Early bird" registration is now open for the 4th Dayton ConTest University ("CTU") 2010. This will be the *only* Contest University held in the USA during 2010. CTU USA will be held in Dayton, Ohio on Thursday May 13, 2010 (classes last all day), just before the Dayton Hamvention. CTU is supported by flagship sponsor Icom America, as well as CQ Magazine, DX Engineering, Superbertha, International Radio, and Dave, W9ZRX. Based upon the tremendous attendance at Dayton CTU 2009, 2010 student registration slots are expected to fill up fast and space is limited. Thanks to Scott, KA9FOX and QTH.com for his hosting of the Contest University Web site! (Thanks, CTU Chairman Tim K3LR)

Guy N7ZG has made all CQ World Wide contest logs from the last three years available as CSV spreadsheet files. Guy instructs, "There are two files. The first (CQWWCW-ENTRIES.txt.zip) consists of one row per submitted log. It contains the submitter's category of entry, claimed score, location, etc. The second file (CQWWCW-CONTACTS.txt.zip) contains the QSO data (10 million plus rows)."

If you are the recipient of a new computer, you are probably still looking for the RS-232 serial ports! Never fear, Rick WW3DE has used Prolific and Belden serial to USB adapters without problems for RTTY and rig control. Don Hill, AA5AU, has information about this on his excellent RTTY contesting Web site.

Safety first - before starting work on that amplifier, make SURE that all high-voltages are completely discharged. The usual technique is to use an insulated grounding stick to short all HV points to ground. The 2010 *ARRL Handbook* has a design for one you can make yourself. Commercial sources include Salisbury and Ross Engineering. (Thanks, John K5PRO).



Contest Season is Here!!!

Work Wanted:

Experienced tower climber immediately available to perform antenna and tower maintenance.

Install/repair/remove antennas, replace feedlines and cabling, rotator servicing, guy wire renewal, new tower installations (guyed and self-supporting), and tower removal.

Reasonable hourly rates and scheduling that meets your needs.

Contact: John Crovelli W2GD

w2gd@hotmail.com

Phone: 908 391 5611 (Mobile)

Reprinted from the ARRL Contest Update

Lee K7TJR has published his design for a three-element, shortened vertical receiving array for 160 meters. It uses high-impedance amplifiers for each element and can work in a small triangle of 40 feet per side.

Marcus VE7CA has published some information about his experiments with a coax receiving loop versus a rotatable diamond-shaped low-noise directional receiving antenna. You just can't have enough receiving antennas on the low bands! And for the transmitting antenna side of things, take a look at Thomas NZ4O's Web page about his comparisons of 160 meter 3/8- and 1/2-wave inverted L and T antennas.

More interesting tools for radio and antenna work are available from Davis RF. They have a new page on their Web site featuring cable preparation tools to make those feed line and connector installation chores a lot easier.

Instead of attaching Beverage antenna wires directly to trees, Steve HAØDU has an alternative that keeps the wires straight and flexible. "I put pieces of [bailing twine] between pairs of trees along the path and the Beverage wire is attached to these. This results in less zig-zagging and larger distances from trees. The ropes are a little loose, so even if the trees are moving in the wind, the ropes are not broken."

FCC Looks to Revise, Clarify Vanity Call Sign Rules

On Wednesday, November 25, the FCC issued a Notice of Proposed Rule Making (NPRM) -- WT Docket No. 09-209 -- seeking to amend the Commission's Amateur Radio Service rules to clarify certain rules and codify existing procedures governing the vanity call sign system, as well as revise certain rules applicable to club stations.

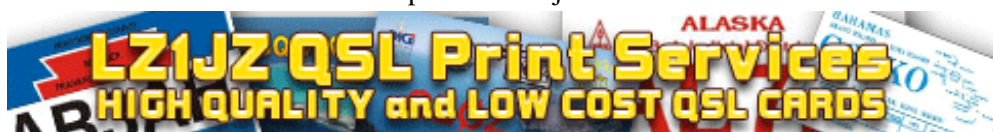
According to the FCC, almost 80,000 licensees have replaced their sequentially issued Amateur Radio call signs with a vanity call sign since the program began in 1996. When the program began, the Commission established what they called "the broad outlines" of the vanity call sign system, concluding that call signs generally should not be available for reassignment for two years following the death of a licensee, or expiration or termination of the license for that call sign. In doing so, the Commission made exceptions for former holders of the call sign, close relatives of a deceased former holder and club stations of which a deceased former holder was a member.

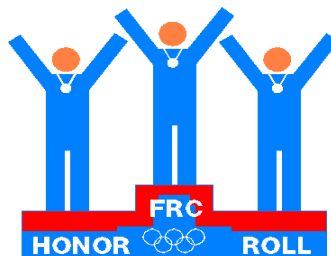
The Commission did not, however, specify all of the procedures governing the vanity call sign system, but indicated that the procedures "would be set out in the Public Notices announcing 'starting gates' for the groups receiving initial priority and that the procedures would be adjusted from gate to gate as experience dictated." The procedures announced in the Public Notices announcing the gates are still in effect, but they are not set forth in the Commission's Rules.

The NPRM states that the FCC "now believe[s] that certain provisions should be codified in our rules, and others added, so that the vanity call sign system will be fair, equitable and transparent to all amateur service licensees. The Commission also decided in the Vanity Report and Order [issued in 1996] to resume issuing new club station licenses. We believe that certain rule changes to the club station licensing rules may be appropriate."

Further information can be found on the web at <http://www.arrl.org/news/stories/2009/11/25/11220/?nc=1> .

<http://www.lz1jz.com>





JANUARY

conducted by N2SS

2010

WARC BANDS

<u>30 Meters</u>	<u>17 Meters</u>	<u>12 Meters</u>
K2FL .. 337	K2FL...340	N2TK ..331
N2TK336	N2TK ..340	K2FL.....327
N2LT329	N2LT 339	N2LT.....324
W3BGN.....327	W3BGN ... 334	W3BGN318
W2YC.....315	N2SS 327	WØMHK..313
W8FJ.....311	WØMHK.. 325	N2SS.....303
N2SS303	W2UP.....322	W2YC.....283
W2UP296	W2YC321	K2PS.....270
WA2VYA..295	K2PS312	WA2VYA..269
K2PS292	WA2VYA .303	W2UP268
WØMHK ..290	N2MM.....300	W8FJ.....235
N3RD.....290	W8FJ300	N1IBM.....234
N2MM260	N1IBM279	KQ3F220
W2IRT.....244	W2IRT.....270	N1RK.....218
K3II.....234	KQ3F.....270	K3II.....203
N1IBM.....225	N1RK.....266	W2LE202
W2LE.....223	W2LE.....261	N2MM.....194
KQ3F217	K3II.....256	W2YR.....187
K2QPN185	K2AX236	W2IRT.....137
N2VW.....182	W2YR213	N2CQ.....128
N2CQ.....181	N2CQ191	AB2E.....92
AB2E156	K2QPN.....141	K2AX86
N1RK.....144	K2GN137	N2WKS51
W2YR.....144	N2VW133	N2VW.....43
K2GN.....97	K3ND.....130	K3GYS30
K3ND.....96	AB2E.....127	K2GN26
N2WKS86	N2WKS116	K2QPN23
K2AX.....81	K3GYS.....85	W2CG.....2
W2CG.....38	W2CG17	
K3GYS17		

Still no **KING OF WARC**



Islands On The Air

K2FL 1029	K2AX 298
N2SS 876	N2VW..... 282
W2YC 712	W2YR 271
W8FJ..... 623	W2IRT 232
N1RK..... 557	K3GYS..... 232
WØMHK 432	K2QPN..... 229
WA3RHW ... 313	AB2E..... 205



MOBILE DX

AA1K 278	K3GYS..... 143
W2YC 276	WM3L..... 109
N2SS 234	W2YR 28

Jon continues as our B ig W heel.

160 Meters

W3BGN308	K3ND..... 137
AA1K306	N1IBM..... 122
WT3Q.....280	W2IRT 122
N2LT270	N2VW..... 121
N2TK.....262	K2PS 116
NO2R.....258	W2CG 116
K3SX254	K2GN..... 107
W8FJ241	K2AX..... 106
K3JIG230	AB2E 100
W2UP222	W2YR..... 92
W2YC.....222	KQ3F 88
N2MM195	N3RD 84
N3RS192	N2WKS 83
K3SWZ.....186	N2SS 82
WØMHK168	W2LE..... 71
WA2VYA....162	K3NL..... 70
K3II160	N1RK..... 65
K2FL154	K2QPN 28
	K3GYS 12

W3BGN is the Top of Top Band!



DIGITAL

W2UP.....342	K2QPN 136
N2LT340	W2YR..... 132
K3SWZ.....329	K2GN..... 123
W3KB.....315	W2CG..... 91
K2PS.....303	N2SS 88
W2YC.....303	WA2VYA 84
KQ3F.....208	N2WKS..... 55
N2TK.....208	W3BGN 48
W2IRT206	N1RK..... 39
N2CQ.....188	K3GYS 15
W2LE171	W8FJ..... 12
N1IBM.....152	

Rules for FRC Honor Roll Listings.

DXCC Challenge is CONFIRMED total ACTIVE (no deleted) on 160-6 excl 60 Meters per ARRL rules. For all others provide me with your total IOTA's worked, or countries (including deleted) worked for: WARC Bands, 160 Meters, Digital modes, Mobile, 6 Meters or your total for 80,40,20, 15 and 10 for 1.5K Club.



1.5K Club

K2FL..... 1726	W2CG1504
W3BGN 1715	KQ3F1501
N2LT..... 1707	WA2VYA...1499
N2TK..... 1706	K3II1449
W2UP 1685	N2VW1334
N3RS..... 1648	N1IBM.....1264
W8FJ 1619	N1RK.....1312
W2YC 1616	W2LE1225
N3RD..... 1593	AB2E1185
N2MM 1559	W2YR.....1170
NO2R..... 1556	W2IRT.....1163
N2SS 1547	K2GN1106
K2PS 1555	K2AX1101
K3ND..... 1510	N2WKS965
WØMHK... 1509	K2QPN781



ARRL DXCC Challenge

N2LT.....2994	W2LE1864
N2TK..... 2946	W2YR.....1747
W2YC 2811	N2VW1664
WØMHK... 2683	K2AX1631
WA2VYA .. 2602	W2CG.....1187
K2PS 2394	N2WKS1118
KQ3F..... 2206	AB2E1104
N1IBM 1972	K2GN1065
N2SS 1952	W3KB.....1005
N1RK 1941	K2QPN809
W2IRT..... 1870	

Low continues in the lead.



6 METER DXCC

WØMHK.... 113	W2YR.....50
N2LT 112	W3BGN.....48
K2PS 109	W2LE46
AA1K 100	K2GN43
K300 95	N1IBM.....34
WA2VYA 88	K2AX21
K3SX.....75	N2MM21
W2YC69	K2QPN10
N1RK57	K3GYS10
WT3Q.....56	W2CG.....5
N2SS55	N2WKS3
N2TK.....54	



THE FRANKFORD RADIO CLUB NEWSLETTER

P. O. Box 431 Albury, PA 18011-0431



Affiliated Club

The Frankford Radio Club

Club Officers

President, **W8FJ**, John Schrader.....610-279-6097
Vice Pres, **K2UT**, Bob Applegate.....609-714-9359
Secretary, **N3ZA**, Moe Mosheim, Jr.....215-256-4004
Treasurer, **K2QM**, Bob Shohet.....203-270-8456

Email: w8fj@aol.com
Email: bob@applegate.org
Email: n3za@comcast.net
Email: kq2m@earthlink.net

Committee Chairman

Repeater, **K3NL**, Nick Leipold 610-449-8910
Packet, **N3RD**, Dave Hawes 610-935-2684
Activities, **N3AD**, Alan Donziger610-581-7032
Awards, **K2QM**, Dan Marlow 609-683-5633
Membership

Newsletter & Roster

Editor, **KQ3F**, Joe Stepansky 717-657-9792
Printing, **N3ZA**, Moe Mosheim, Jr... ..215-256-4004

Email: kq3f@comcast.net
Email: n3za@comcast.net

Repeater - 2 meters, 147.27/147.87 Input and Output PL tone, 114.8

Home Page - www.gofrc.org

Meetings

Summer meetings are held at member homes (one Saturday/Sunday per month).

Packet Cluster Contest/DX System

144.950 K3ZV
145.050 W3TUA
145.530 AA1K
145.530 K3WW
145.570 WT3Q
145.670 W3PP

Telnet DX Cluster

k2ut.gofrc.org
k3ww.gofrc.org 7300
wt3q.gofrc.org 7300
tuacluster.no-ip.org:23