



THE FRANKFORD RADIO CLUB NEWSLETTER

PROFICIENCY THROUGH COMPETITION

CALENDAR

January 2007:

- 6-7 ARRL RTTY Roundup
- 9 FRC Main Meeting, Phila.**
- 9 Remy Meeting B**
- 13-14 No. Amer. QSO Party, CW
- 18 T.I.T.S. Meeting, Noon**
- 20-21 No. Amer. QSO Party, SSB
- 23 Remy Meeting B**
- 27-28 CQ 160M Contest, CW

February 2007:

- 3-4 Delaware QSO Party
- 4 North America Sprint SSB
- 10-11 CQ WPX Contest, RTTY
- 11 North America Sprint CW
- 13 FRC Main Meeting, Phila.**
- 13 Remy Meeting B**
- 15 T.I.T.S. Meeting, Noon**
- 17-18 ARRL DX Test, CW**
- 24-25 CQ 160M Contest, SSB
- 27 Remy Meeting B**

March 2007:

- 3-4 ARRL DX Test, SSB**
- 13 FRC Main Meeting, Phila.**
- 13 Remy Meeting B**
- 15 T.I.T.S. Meeting, Noon**
- 17-18 Russian DX Contest
- 24-25 CQ WPX Contest, SSB
- 27 Remy Meeting B**

CHANGES

Address

N3PUR

Michael W. Thompson
5030 Centre Ave. Apt L51
Pittsburgh, PA 15213

**New \$\$ Contributor
K3CT**

Deadline for February issue:
Sunday, January 28, 2007

President's Column

As 2007 starts, I want to take a look back at 2006 and some of the accomplishments we have made. The **FRC** placed a strong second in both the ARRL DX and the CQWW again. This is a great accomplishment that we can all be proud of. Many of our members placed high up in the standings in each of these contests. I want to thank all of those who made the effort to get on and post a score for the club. All scores, no matter what, are all acknowledged and appreciated.

So, what will 2007 bring? The CQWW is now behind us. It looks like the club posted a very respectable score again. We will see what the results are sometime later this year. The ARRL DX contest is right around the corner. I encourage all members, if you are able, to spend some time in the chair and make some points. This is a fun contest on this side of the pond.

I also want to mention the repeater. As some of you know, the main repeater is off for repair. I want to thank Nick, **K3NL**, for taking the time to get the repeater back in operation.

In a few months, we will also be electing a new slate of officers. If you have interest in serving the club, please come forward and let your interest be known. The club not only needs scores, but also administrative support. I have been an officer for 6 years now and it has been a rewarding experience. If you would like to take on a challenge like this, let it be known.

So, to all members and their families, have a safe and prosperous 2007 and I hope to catch you at the upcoming meetings.

73 - John - K3ZV

HAPPY NEW YEAR
2007

MEETINGS

Main Meeting

The main monthly meeting of the **Frankford Radio Club** will be held Philadelphia on Tuesday, January 9 at 8 PM. Location is Rosenburger Hall, Room 102 at the University of the Sciences.



T.I.T.S. meeting—The Trexlertown International Transmitting Society meets on Thursday, January 18 at 12:00 noon. Location is the Hometown Diner on Route 222 in Trexlertown..

Rexy Meeting B—The Rexy's **FRC Meeting B** meets about 8 PM on the second and fourth Tuesdays of each month.

FRC Pizza Bash



It was another great pizza blast at the Crossroads in Hellertown. Fun was had by all that attended... Heck even the Eagles/Cowboy/Giants fans got along for an hour or two.

This year 37 FRCers ate and drank their way through 10 pitchers of soda, 25 pitchers of beer, 25 pizzas !! GREAT JOB GUYS !!

Attendees : **K300, KQ3V, WE3C, N3RS, N2SR, K3JG, NO2R, W2XT, W2LE, W2NO, W1GD, W2EN, W2CG, K2TW, W3BGN, W3CC, W3FVT, N2TK, K3WW, K3NL, K2TW, KU3X, N3OW, W3CF, WB3FIZ, W3FV, N3YW, K2TTT & Matt, KR2Q, N3RD, NA2U, K3PP, K3CT, K3II, N3MX, K3PH, K2DM.** HNY & 73, Rick **K300**

Thanks!

I would like to thank all the hams who took the time to take down and dismantle Norm's **K3NZ** radio towers on November 4, 2006. It was a great job.



Barry, **K3UX**
Rick, **K300**
Tony, **N2TK**
David, **W3MM**
Barry, **W3FV**
Doug, **W3CF**
Rich, **W3RJ**
Bob, **K3TH**
Bill, **NC3P**
Steve, **KC3WX**
Daryle, **K3JG**

Special thanks to Barry **K3UX**, Rick, **K300** and David, **W3MM** for their extra help.

Norm, K3NZ and Nancy (XYL) Zoltack

FRC 2006 CQWW CW Claimed Scores

Station	Class	Score	Station	Class	Score	Station	Class	Score
AA1K	A	4,168,692	N1RK	AA	537,312	W2YC	M2	2,539,068
HS0ZDJ	AA	736,190	N2AA/HK	L14	790,400	<i>Ops W2YC AA2WN</i>		
J49Z	AA	3,709,888	<i>Op N2AA</i>			W2ZQ	M2	4,994,333
K2AX	MM	5,198,904	N2CQ	AA	380,275	<i>Ops K2QM N2BA N2EA</i>		
<i>Ops K2AX K3ZV N2SR</i>			N2ED	AA	1,482,017	<i>N2WKS</i>		
<i>N3RG W2OF W2RDS</i>			N2LT	A	4,061,094	W3AP	14	53,300
K2CJ	A	38,695	N2VM	A	40,430	W3BGN	MS	6,328,791
K2GN	AA	33,580	N3GNW	AA	118,215	<i>Ops W3BGN K2TW NO2R</i>		
K2NG	AA	5,148,960	N3KN	AA	502,165	W3CC	AA	69,160
K2PS	LA	1,568,658	N3KR	A	639,989	W3CF	Q	1,798
K2QPN	AA	302,211	N3MX	M2	1,510,646	W3FV	AA	2,890,111
K2SQS	A	34,335	<i>Ops N3MX K3YD</i>			W3FVT	A	146,985
K3BU	A1.	840,579	N3RJ	A	707,772	W3GK	AA	743,535
K3CT	AA	417,853	N3RS	M2	10,940,000	W3IZ	AA	762,850
K3GYS	A	320,754	<i>Ops N3RS K3IPK N3ED</i>			W3NX	MS	1,418,625
K3II	AA	692,360	<i>N3NA W8FJ</i>			<i>Ops KD2HE N3NR</i>		
K3JGJ	3.5	122,368	N3RW	7	32,140	W3PP	A	2,602,144
K3LR	MM	18,729,854	N3ZA	AA	1,066,280	WT3Q	A1.	826,918
<i>Ops K3LR K3UA K8CX</i>			N9GG	LA	12,225	Total 165,862,497		
<i>KI4MTU KL9A M0DXR</i>			NA2U	AA	1,875,423			
<i>N2NC N2NL N3GJ N3SD</i>			NE3F	MM	3,651,804	<i>Note: scores are for full station score, FRC share will be somewhat reduced in some cases.</i>		
<i>N6MJ N6RT W2AU</i>			<i>Ops NE3F K3ATO W3CF</i>			<i>Send CW logs to cw@cqww.com by January 15. You MUST report your score to K3WW. a CC of your entry to K3WW is not a bad idea. If you have problems uploading your logs, contact k3ww@fast.net for help. Be sure to put CLUB: Frankford Radio Club in the header.</i>		
K3MD	AA	2,206,549	<i>W3TUA</i>			<i>Be sure to check <http://www.cqww.com/> under CW LOGS RECEIVED to see if your entry was properly captured.</i>		
K3ND	AA	1,251,558	NN3Q	LA	2,213,652			
K3OO	AA	2,124,008	P40W	A	12,244,382			
K3OX	A	232,106	<i>Op W2GD</i>					
K3PH	AA	3,096,798	V26K	LA	8,043,526			
K3VA	A	170,543	<i>Op AA3B</i>					
K3WW	AA	6,358,117	VP2MDG	A	4,654,188			
K9RS	AA	4,234,005	<i>Op K2DM</i>					
KC1XX	MM	18,726,390	W1GD	AA	1,938,208			
<i>Ops KC1XX K1EA K1GQ</i>			W2CG	M2	2,679,003			
<i>KAIR KM3T N3RD W1FV</i>			<i>Ops W2CG W2EN</i>					
<i>W2RQ WAIZ WC1M</i>			W2LE	AA	1,157,961			
KD3TB	AA	99,828	W2RD	AA	515,100			
KQ2M	A	3,364,400	W2UDT	AA	135,724			
KQ3F	AA	2,870,350	W2UP	AA	1,813,101			
KW3F	AA	123,552						

FRC Awards for the 2005-2006 Season

I apologize for the delay in getting the awards out this year. I had the idea of automating the process using a PERL script. While that should save time in the future, it took me much longer than I thought this year. The plaques are ready and will be distributed at the January meeting. The Grand Slam Award certificates will be going out by mail soon. Dan, **K2QM**

Big Guns

Top Gun	W2GD	32,569,029
Big Gun	K2NG	15,956,993
Top Ten	AA1K	15,427,830
Top Ten	K3WW	15,289,622
Top Ten	AA3B	14,478,816
Top Ten	W3BGN	12,133,272
Top Ten	WE3C	11,479,331
Top Ten	W2UP	10,697,648
Top Ten	N2TK	10,410,494
Top Ten	K3CT	10,381,127
Top Ten	W3FV	9,962,511

Multi Ops*

	Station	Total	Ops
US MM			
1 st	N3RS	36,901,111	K3IPK K9RS KF3B N2SR N3ED N3NA N3RD N3RS W8FJ WA3LRO
2 nd	WE3C	13,156,123	KQ3V N3FTI NM3E W3FV WE3C
3 rd	N3AD	12,574,098	K3ZV KD2HE N3AD N3DXX N3NR W3CF
US MS			
1 st	NE3F	7,263,899	K3ATO KS3F N3OW NE3F NT3V
2 nd	K3OO	5,583,465	K3OO N2TK
3 rd	W3BGN	5,006,658	K2TW NO2R W3BGN
DX MM			
1 st	WP2Z	25,405,772	K2TW K3CT K3TEJ N2TK W3FV
2 nd	VP5T	5,693,588	N2VW WA2VYA
3 rd	TO9A	5,243,550	K3CT K3TEJ
DX MS			
1 st	PJ4G	6,264,510	K2NG K2TW
2 nd	6Y7A	5,528,986	KN5H N3DXX
3 rd	J7DM	6,750,230	AD4J K2DM K3ZM W4GKA

(*scores indicated are total. Rankings are based only on contributions to **FRC** club total.)

Grand Slam Awards

The **FRC** Grand Slam Award is a certificate given to all **FRC** members who enter all four of the major contests during a given season. The winners for the 2005-2006 season are:

AA1K AA2WN AA3B K2NG K2QM K2QPN K3ATO K3MD K3ND K3OO K3PH K3WW K3ZV KF3B KQ3F KQ3V N1RK N3BNA N3DXX N3KR N3MX N3NA N3NR N3RD N3RS N3ZA NA2U NE3F NN3Q NO2R W1GD W2CG W2GD W2YC W3AP W3BGN W3CF W3FV W8FJ WA2VYA WE3C

Group at University of Pennsylvania Starting Amateur Radio Club

A group of University of Pennsylvania alumni, staff and students has recently re-activated the previously lapsed amateur radio callsign, W3ABT, of the University of Pennsylvania Amateur Radio Club and has formed the nucleus of a new club at Penn. We are now working to identify additional faculty, staff and students at Penn, or students who will be attending Penn who have an interest in amateur radio or who are licensed radio amateurs. Our goal is to re-establish a student-lead, on campus amateur radio club and station at the University.

By means of this letter, we are asking for help from Philadelphia area amateur radio club members to identify current students, faculty, staff and alumni at Penn who might have an interest in helping to build a new, on-campus amateur radio organization. Any help you can give us in this regard will be greatly appreciated. In particular, we would like to receive contact information for licensed amateur radio operators or people with an interest in amateur radio who are now or will be associated in any way with the University of Pennsylvania. Thank you in advance for any help you are able to provide. 73, Jan Carman, K5MA, Secretary University of Pennsylvania Amateur Radio Club

Jan Carman, K5MA
 P. O. Box 930
 West Falmouth, MA 02574-0930
 jcarman@capecod.net

FRC ARRL 160M Contest Scores					FRC ARRL Sweepstakes CW Contest Scores			
Station	QSOs	US/VE	DX	Score	Station	QSOs	Sect	Score
AA1K	1431	77	39	356,700	AA1K	60	31	3,720
AA3B	552	63	13	87,552	AA3B	1160	80	185,600
K2PS	222	39	3	19,026	K3MD	592	77	91,168
K3OO	219	45	18	31,563	K3WW	625	80	100,000
K3WW	1157	76	30	265,000	KD2HE	125	33	8,250
N2ED	577	75	10	100,640	N2NT(N2NC)	1377	80	220,320
N2NT	365	57	12	55,131	W2GD	505	80	80,800
N2QPN				286	W2RQ	1234	80	197,440
N3KN	130	41	0	10,660				
N3NR	530	67	3	75,040				
N3ZA	114	56	8	13,944				
NN3Q	940	73	25	195,455				
NO2R	1282	76	46	366,610				
W2GD	1513	77	50	438,023				
W2IRT	190	70	7	27,860				
W2NO	156	42	2	13,992				
W2YC	677	74	18	130,088				
W3BGN	1142	30	73	255,000				
W3MF	190	48	8	22,624				
W8FJ				160,265				
FRC ARRL Sweepstakes SSB Contest Scores					FRC ARRL Sweepstakes SSB Contest Scores			
Station	QSOs	Sect	Score		Station	QSOs	Mult	Score
K2TTT	625	75	93,750		AA3B	223	46	41,032
K3WW	368	80	58,880		K2PS	727	134	321,332
N2NT	1844	80	295,040		K2TTT	220	59	49,206
NE3F	550	80	88,000		K3WW	340	82	91,348
					KF3B	389	56	87,136
					N2NT	291	88	85,008
					W3TUA	33	12	1,440

Reprinted with permission from the December 13, 2006 Contest Rate Sheet

Discussing whether it's better to use high/low pitch and wide/narrow filters when copying weak stations, Jim N2EA offers the slightly-edited following. "Depending on the statistical nature of the prevailing noise, you may hear better with a lower frequency OR with a higher frequency. It isn't always the same. Moreover, despite our tendency to use tight filters, they may not be the best for small signal detection. First, the brain needs a fair statistical sample of the noise, to be able to compare signals to it. A narrower filter may not provide enough noise input. Second, narrower filters may have ringing and phase distortion, which confuse the brain...such that the SNR is NOT improved with the narrower filter. Widening the filter and shifting to a higher pitch often brought the desired signal out of the noise, even though I prefer listening to a lower pitch. Try both approaches before you give up."

Continuing the consideration of pitch sensitivity, Eric K3NA relays that "The ear can resolve nearby tones more easily at low frequencies than high. Two tones separate by 10 Hz at 1000 Hz are only 1% apart, but at 200 Hz they are separated by 5%. There are many conflicting factors at play here. A just-noticeable-difference in pitch depends on frequency, volume, duration, and the speed at which frequency changes (for a changing tone). As a result, there is a band of frequencies for which we have maximum pitch discrimination. If you want to measure this for yourself, take the test at <http://www.ucihs.uci.edu/hesp> (You must use Internet Explorer for the test.) Click on "Hearing Test" at the left and pick "frequency discrimination". The other tests are fun, too."

Pete N4ZR contributes this tip to help others avoid an irritating "oops" when installing chassis-mount SO-239 connectors. "I wanted to use single-hole SO-239s in one box, and found that the ones I could get had the thread on the outside - so you would stick them through the box from the inside, and then put the nuts on to hold them in place. The trouble was that with the thick walls of the box, the amount of thread remaining was insufficient to pull standard PL-259s down tight against the jacks causing intermittent contacts. You can get SO-239s that have the thread behind the fixed flange, but ask specifically before buying." Short UHF bulkhead connectors with nuts on both sides are also available if the interior connection is to a PL-259. (Thanks, Mike W0MU)

To keep a turnbuckle from loosening up, put a loop of cable through both eye bolts (or the guy cable thimbles) and the body, then clamp the ends together with a cable clamp. (Thanks, Jim K0XU and others)

Sometimes components need to be installed directly on the ac line, especially capacitors for filtering. How do you choose an adequately rated part? The folks at <http://www.justradios.com/safetytips.html> have assembled an excellent collection of safety information on line-rated capacitors. (Thanks, Roger N1RJ)



Happy New Year to All!!!

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

New Reach Number: 908 391 5611 (Mobile)

Reprinted with permission from the December 27, 2006 Contest Rate Sheet

A set of photos describing K3LR's PL-259 soldering technique are now on-line at <http://k3lr.com/engineering/pl259/> Bill W6WRT uses a similar technique, but simply trims the jacket back enough to expose braid at the back of the connector shell and solders there. Bruce WA3AFS solders at the body holes, but uses a small hook to pull braid up through the holes so that it can be heated easier.

Trying to remove a ground rod? Let Jim N2EY give you some tips. "The first step is to break the adhesion to the soil by turning the rod. Get a large pipe wrench - not an adjustable wrench or gripping pliers, but a true pipe wrench. Use the pipe wrench to grab the ground rod in the classic 3-points-of-contact way. Turn the rod. If you need more leverage, put a breaker bar or length of pipe on the pipe wrench. A couple of turns will loosen most ground rods so well that you can yank them out with one hand. Jacks and chains and such should only be used after the turning process has been tried."

Many of us that have opened up a rotator learned many interesting things during that first surgery - about ball bearings, gears, center of gravity, and other similar topics. Randy WB4UNA provides three helpful hints for disassembling and reassembling Ham-II/III/IV and Tailtwister rotators.

- Before disassembling, turn the unit to the north or center position
- Make an alignment mark between the housings before separating them
- Hold the rotator upside down when disassembling to keep the ball bearings at home in the top housing.



SAVE IN THE NEW YEAR!

- **IC-P7A** 2m/70cm VHF/UHF HT \$ 204.95
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- **IC-7800** BIG GUN XCVR \$ 9,499.95



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FCC to Drop Morse Testing for All Amateur License Classes

Early next year, the US will join the growing list of countries that no longer require Amateur Radio applicants to pass a Morse code test as the entry ticket to HF. Announcement of the pending historic rule change arrived with no fanfare December 15 in an FCC public notice. A full-blown Report and Order (R&O) in the proceeding, WT Docket 05-235, followed December 19. The best estimate of when the Morse code requirement will go away officially is sometime in February -- 30 days after the R&O appears in the Federal Register.

"We . . . believe that the public interest is not served by requiring facility in Morse code when the trend in amateur communications is to use voice and digital technologies for exchanging messages," the FCC said in its R&O. "Rather, we believe that because the international requirement for telegraphy proficiency has been eliminated, we should treat Morse code telegraphy no differently from other Amateur Service communications techniques."

The FCC says it deems the current regime of written examinations "sufficient to determine whether a person is qualified to be issued an Amateur Radio operator license."

The FCC cast aside arguments that Morse ability is advantageous in emergencies, concluding that most emergency communication is handled using voice, data, or video techniques. The Commission also turned away assertions that retaining a Morse requirement would help keep out the bad apples.

"The record is devoid of a demonstrated nexus between Morse code proficiency and on-the-air conduct," the FCC observed. It concurred with one commenter's observation that "maintaining the code requirement does not purge Amateur Radio of bad operators. Education and self-policing does."

The FCC also ordered that all Technician licensees present and future -- whether or not they've passed a Morse code test, will get privileges on 80, 40, 15 and 10 meters identical to those of Novice licensees. "In eliminating this disparity between Technician and Technician Plus licenses, we are simplifying the Amateur Service licensing structure and promoting regulatory parity," the FCC said.

The FCC took advantage of the occasion to act on the League's Petition for Partial Reconsideration in the "omnibus" proceeding, WT Docket 04-140, calling on the Commission to retain 3620 to 3635 kHz for automatically controlled digital stations by moving the Extra class phone band edge to 3635 kHz. The FCC decided instead to authorize 3585 to 3600 kHz for such operations, and leave the newly expanded phone band intact.

The Commission further amended Part 97 "to authorize Amateur Extra class privileges to all individuals who have been issued a CEPT radio-amateur license by their country of citizenship, and who satisfy other requirements in the Commission's rules."

Although the FCC's Morse code decision came as no surprise, it nonetheless revived debate on the issue. The FCC had proposed more than a year ago to drop the Morse code requirement for all license classes. The record in the proceeding, the FCC said, "reflects a division of views in the Amateur Radio community." After reviewing the more than 3500 comments and counter-proposals radio amateurs had filed, the Commission stuck with its initial proposal.

ARRL President Joel Harrison, W5ZN, had this reaction: "While the Commission's decision to delete the Morse code requirement for an Amateur Extra Class license departs from the ARRL's recommendation, it is helpful to have the matter resolved so we can move forward."

<http://www.qsl.net/lz1jz>



NEWS FROM THE ARRL

ARRL CEO David Sumner, K1ZZ, expressed a similar viewpoint. "Now that the debate is over, we can focus on learning Morse code simply for its own sake," he said. Sumner pledged that the League would maintain its traditional support of Morse code as an operating mode and would continue to offer Morse training materials as well as such incentives as bonus credit for CW contacts in ARRL-sponsored operating events. ARRL's Hiram Percy Maxim Memorial Station W1AW will keep its schedule of Morse code practice and bulletin transmissions.

Since World Radiocommunication Conference 2003, the UK, Canada, Germany and other countries have dropped their Morse requirements. Sumner said other countries have successfully made the transition to a codeless testing regime, and he doesn't anticipate problems in the US.

The pending disappearance of the Morse code requirement seems to have rejuvenated the urge to upgrade. ARRL Sales and Marketing Manager Bob Inderbitzen, NQ1R, says sales of General Class license training materials have skyrocketed in the week after the FCC announcement.

The ARRL has posted information relevant to the FCC action in WT Docket 05-235, including an FAQ, on its Web site <<<http://www.arrl.org/fcc/morse/>>>.

Dayton Hamvention® Invites 2007 Award Nominations

Dayton Hamvention <<<http://www.hamvention.org/>>> is accepting nominations for its 2007 Amateur of the Year, Special Achievement, and Technical Excellence awards. The deadline to submit nominations is February 19, 2007. All Amateur Radio operators are eligible. Dayton Hamvention will recognize the winners at the 2007 Hamvention, May 18-20.

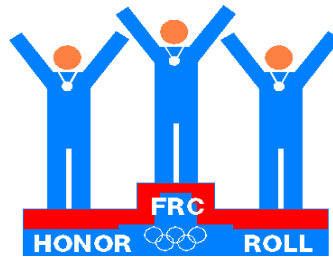
The Amateur of the Year Award goes to an individual who has made a long-term, outstanding commitment to the advancement of Amateur Radio. The Technical Excellence Award is for the person who has made an outstanding technical advancement in the field of Amateur Radio. The Special Achievement Award honors someone who has made an outstanding contribution to the advancement of Amateur Radio, usually by spearheading a significant project.

The Hamvention Awards Committee makes its decisions on all awards based in part upon the information it receives and not on the number of nominations submitted. Documentation to inform the Awards Committee of a candidate's accomplishments may include magazine articles, newsletters, newspaper clippings and even videos. All materials submitted become the property of Hamvention and will not be returned.

Additional details and a nomination form are available on the Dayton Hamvention Web site <<<http://www.hamvention.org/nomination07.htm>>>. Nominations also are accepted via US mail to Dayton Hamvention Awards, PO Box 964, Dayton, OH 45401.

ARRL Outgoing QSL Service revises rates

The ARRL Outgoing QSL Service <<<http://www.arrl.org/qs/qsout.html>>> has announced has announced a new rate structure, effective January 1, 2007. The new basic rate will be \$5 per half-pound (8 ounces -- or approximately 75 cards) or any portion of a half-pound. That's a change from the current rate of \$4 per half-pound or any portion. One pound will cost \$10, and larger packages will be assessed \$5 for each additional half-pound (or portion thereof). For example, a package containing 1.5 pounds of cards will cost \$15, while a package containing 1.75 pounds of cards will cost \$20. For smaller packages, the new fee is only \$1.50 for 10 or fewer cards, \$2.50 for 11 to 20 cards and \$3.75 for 21 to 30 cards. The new rate structure will help to cover basic handling costs for smaller packages while continuing to offer a price break to moderate-volume users submitting less than one-half pound of cards. The new rate schedule is in response to the recent postal rate increase and price restructuring, which doubled the bureau's postal costs. The ARRL Outgoing QSL Service is available only to ARRL members. The last rate revision went into effect in March 2001.



JANUARY

CONDUCTED BY N2SS

2007

WARC BANDS

<u>30 Meters</u>	<u>17 Meters</u>	<u>12 Meters</u>
K2FL .. 334	K2FL...338	N2TK ..329
N2TK332	N2TK ..338	K2FL.....327
N2LT321	N2LT 335	N2LT.....321
W3BGN319	W3CF 332	W3BGN ...315
W2YC306	W3BGN ... 331	W3CF303
N2SS291	N2SS 322	N2SS.....302
W8FJ292	W2UP 317	W2YC278
K2PS284	W2YC 309	K2PS.....268
W2UP284	K2PS 303	W2UP265
N3RD265	W8FJ 295	W8FJ232
N2MM233	N2MM.....268	N1RK.....218
K3II.....232	N1RK 253	KQ3F217
W2LE.....220	KQ3F 252	K3II.....203
KQ3F195	K3II 246	N3KN 191
W2IRT183	W2LE 231	W2LE 191
W2RQ182	W2IRT.....209	W2YR187
AA2WN...174	W2YR 202	N2MM185
K3CT134	K2AX 192	NA2U156
AB2E132	W2RQ 192	W2RQ119
W2YR.....131	N3KN 171	W2IRT105
N3KN.....126	NA2U 167	AB2E92
NA2U.....110	K3CT.....126	K3CT83
N1RK.....107	K3ND 124	K2AX69
K3ND.....85	AA2WN ... 122	K3GYS30
N2VW.....76	AB2E.....108	N2VW.....28
W3CF.....61	K3GYS.....85	AA2WN.....20
K3GYS17	N2VW 67	
K2AX.....15		

K2FL and N2TK still duking it out for that elusive, undisputed **KING OF WARC**

Rules for FRC Honor Roll Listings.

Provide me with your total IOTAs 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. Countries do not count until HQ Awards Committee takes action and announces a start date for a new country.

160 Meters

W3BGN296	K2PS 106
AA1K290	W2CG 95
WT3Q264	AB2E 94
N2LT254	N2VW 85
N2TK252	NA2U 83
K3SX233	W2YR 81
NO2R233	N2SS 79
W8FJ219	K2AX77
W2UP204	W3CF77
K3JIG200	W2IRT 74
W2YC191	K3NL 70
N2MM182	K3CT 63
W2RQ166	KQ3F 57
K3NM156	N1RK 51
N3RS156	AA2WN 50
K3II152	N3KN 34
K2FL143	W2LE 28
K3ND136	K3GYS 12

W3BGN continues as the undisputed Top of Top Band.

Digital

W2UP.....340	KQ3F 132
N2LT336	W2LE..... 124
K2PS288	W2CG 66
W2YC.....267	N2SS 53
AA2WN.....187	N1RK..... 39
N3KN181	K3GYS 15
W2IRT.....141	W8FJ..... 12
W2YR.....132	



MOBILE DX

W2YC276	K3GYS 143
AA1K273	AA2WN 131
N2SS234	W2YR 28



1.5K Club

K2FL..... 1715	KQ3F1453
W3BGN 1705	W2CG1408
N2TK 1697	W3CF1403
N2LT..... 1691	AA2WN.....1379
W2UP 1676	NA2U1365
W2RQ..... 1645	K2AX1334
N3RS..... 1621	N1RK.....1289
W8FJ 1602	N2VW1270
K3II 1573	K3CT1180
W2YC 1571	W2LE1175
N3RD 1552	W2YR.....1153
NO2R..... 1536	N3KN1120
N2SS 1527	K3NM.....1107
K2PS 1524	AB2E1164
N2MM 1524	W2IRT1014
K3ND..... 1501	



Islands On The Air

K2FL..... 1012	N2VW261
N2SS 840	W3CF253
W2YC 645	W2YR.....244
W8FJ 620	W2IRT.....232
N1RK 546	K3GYS229
WA3RHW....292	AB2E205



6 METER DXCC

N2LT.....107	N3KN52
K2PS..... 101	W2YR.....44
AA1K 99	W2YC.....29
K300 80	K2AX18
K3SX..... 75	AA2WN.....15
N1RK 57	N2TK.....12
N2SS 55	K3GYS10



THE FRANKFORD RADIO CLUB NEWSLETTER

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



Affiliated Club

The Frankford Radio Club

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Repeater - 2 meters, 145.43/144.83 Output PL tone, 167.9

Home Page - www.gofrc.org

Meetings

Meetings are held on the 2nd Tuesday of each month (Sep through May) at 8 PM at the University of the Sciences, Philadelphia. Summer meetings are held at member homes (one Saturday/ Sunday per month).

Packet Cluster Contest/DX System

144.950 K3ZV
145.530 AA1K
145.530 K3WW
145.570 WT3Q
145.670 W3PP

Telnet DX Cluster

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k3ww.gofrc.org 7300
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