



THE FRANKFORD RADIO CLUB NEWSLETTER

PROFICIENCY THROUGH COMPETITION

CALENDAR

February 2008:

- 2 No. American Sprint, CW
- 2-3 Delaware QSO Party
- 9 No. American Sprint, SSB
- 9-10 CQWW RTTY WPX Test
- 12 FRC Main Meeting, Koff**
- 12 Rexy Meeting B**
- 16-17 ARRL DX Test, CW**
- 21 T.I.T.S. Meeting, Noon**
- 23-24 CQWW 160 Meter Test, SSB
- 26 Rexy Meeting B**

March 2008:

- 1-2 ARRL DX Test, SSB**
- 11 FRC Main Meeting, Koff**
- 11 Rexy Meeting B**
- 15-16 Russian DX Contest
- 20 T.I.T.S. Meeting, Noon**
- 25 Rexy Meeting B**
- 29-30 CQWW WPX Contest, SSB

April 2008:

- 8 FRC Main Meeting, Koff**
- 8 Rexy Meeting B**
- 12-13 Japan Int. DX Contest, CW
- 17 T.I.T.S. Meeting, Noon**
- 19-20 YU DX Contest, CW
- 22 Rexy Meeting B**
- 26-27 Helvetia Contest
- 26-27 Florida QSO Party

CHANGES

None this Month

Deadline for March issue:

Sunday, February 24, 2008

President's Column

Gentlemen and Ladies:

The CQ160M CW Contest Weekend is over. Propagation was pretty good, and I worked quite a few of you. Thanks for the points!

The ARRL Contests are coming up real soon. Like me, many of you used the 160M Contest as a "tune up" for the big ones in February and March. Hopefully, everyone's station is in good working order. If you need help with a problem, ask for assistance! If you need a place to operate, speak up! Let's get ourselves psyched up to mount a major effort during *both* ARRL weekends! Plan in advance to be there! Let your families know that you've made a commitment to help us trash the dudes up north! Sit in the operating chair for that extra hour or two! **MAKE POINTS !!** Even if you can't make a major commitment, make some sort of commitment! Remember that every point counts; and for God's sake, don't forget to send in your log! We can win this one if we put our minds to it.

73, John, W8FJ

Repeater News

While the main 147.270 repeater is off for maintenance & repairs, the club is using the 145.430 repeater. Its input is down 600kc and requires a PL of 167.9 (*Thanks to Nick, K3NL, for the Information*)

DX Cluster News

The WT3Q DX Spider node has been upgraded to latest software and returned to service, with a 2m port operating on 145.570 MHz. (*Thanks to Dave, N3RD, for the Information*)

Important note

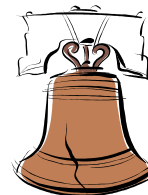
Rick, **K300**, advises that in order to attend either the 2008 **FRC** Open in June or the **FRC** Pizza Blast in December, **FRC** members must contribute points during the 2007-2008 contest season. This condition does NOT apply to non-members.

MEETINGS

Main Meeting

The main monthly meeting of the **Frankford Radio Club** will be held in King of Prussia on February 12 at 8 PM.

The firehouse address is 170 Allendale Road, King of Prussia, PA 19406. Phone number is 610-265-5635.



T.I.T.S. meeting—The Trexlertown International Transmitting Society meets on Thursday, February 21 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.

ICE!!

Two images below of **KQ3F**'s antennas in the aftermath of an ice storm on December 16. Fortunately there was no antenna damage, but the Hy-Gain Discoverer 7-2 and TH7DX can both sure take an ice beating. The element flexing looked more impressive in person. *(Images courtesy of Debbie Stepansky, XYL of KQ3F. She had to work fast before the sun melted the ice from the antennas)*



FRC SCORES—2007 CQWW CW

Station	QSOs	Zones	Cntrys	Class	Score	Station	QSOs	Zones	Cntrys	Class	Score
V26K	5,577	123	421	LA	7,545,824	KP2M	7,674	132	264	M2	10,925,448
<i>Op AA3B</i>						<i>Ops K3TEJ K3VA</i>					
AA1K				A	4,218,890	KQ2M				A	751,296
AB2E	302	69	187	AA	200,960	KQ3F	1,112	95	336	AA	1,362,822
HS0AC				M2	1,794,870	N2ED	1,148	120	406	AA	1,675,275
<i>Ops HS1CKC OZ1HET SM3DYU W2YR</i>						N2LT				A	3,660,817
K2AX				M2	3,715,443	N2MM				LA	1,522,256
<i>Ops K2AX K3EGE K3ZV N3RG W2OF</i>						N2VM				A	42,066
K2CJ				LA	71,550	N2VW	299	66	191	AA	201,745
K2DM	1,232	124	400	AA	1,795,224	N3AD	1,953	141	507	AA	3,561,408
K2NG				AA	4,195,668	N3EHY				A	86,296
K2PS	1,175	92	339	LA	1,415,404	N3GNW				AA	115,978
K2QPN				AA	292,500	N3KR	1,332	73	241	A	416,916
K2SG				AA	330,363	N3RJ	746	80	246	A	689,816
K2SQS	339	67	195	AA	235,800	N3RS	5,246	166	647	M2	11,819,000
K2TTT				AA	1,001,114	<i>Ops N3RS N2SR N3ED N3NA N3RD W2UP</i>					
K3CT	405	92	277	AA	393,354	<i>W8FJ WA3LRO</i>					
K3GYS	320	55	166	LA	195,364	N3ZA	724	111	375	AA	973,944
K3II				AA	146,448	NE3F	1,806	121	453	M2	2,921,660
K3LR	5,870	179	710	MM	13,873,971	<i>Ops NE3F K3ATO NE3I W3CF WA3WLH</i>					
<i>Ops K3LR K3UA K8CX KL9A M0DXR N2NC</i>						NQ3N	117	20	60	7	25,120
<i>N3GJ N3RA N3SD N5UM N6MJ N6RT</i>						NQ3X	286	57	152	AA	160,094
K3MD	1,472	125	440	MS	2,309,720	P40W	6,225	136	505	A	11,793,118
<i>Ops K3MD AB3AX</i>						<i>Op W2GD</i>					
K3ND				AA	1,374,510	V47NT	7,120	134	464	A	10,560,680
K3OO	2,290	143	528	AA	4,360,158	<i>Op N2NT</i>					
K3PH	1,667	123	466	AA	2,733,549	W1GD	958	113	388	AA	1,348,692
K3PP	120	53	111	AA	51,660	W2CG	1,665	123	466	M2	2,758,287
K3QF	1,069	122	422	A	1,627,104	<i>Ops W2CG W2EN</i>					
K3WW	2,536	143	546	AA	4,845,048	W2LE	872	102	357	AA	1,100,223
K9RS	847	127	417	AA	1,305,056	W2OX	298	65	185	AA	195,300
KC1XX	6,095	173	681	MM	14,006,454	W2RD				AA	681,030
<i>Ops KC1XX K1EP K1GQ K1TR KAIR N1KWF</i>						W2REH				AA	356,323
<i>N2AA W1FV W2RQ WA1Z</i>						W2UP	295	32	106	AA	114,816
KD2HE	155	18	66	A14	35,784	W2YC	1,514	136	526	M2	2,759,878
KD3TB	263	55	155	MS	148,680	<i>Ops W2YC AA2WN N2CQ W0MHK</i>					
<i>Ops KD3TB K3FMQ KD3RF</i>						W2ZQ	1,840	121	479	MS	3,074,400
						<i>Ops K2QM N2BA N2WKS</i>					

FRC SCORES—2007 CQWW CW

Station	QSOs	Zones	Cntrys	Class	Score	Station	QSOs	Zones	Cntrys	Class	Score
W3BGN	2,822	159	604	MS	6,107,815	W3RJ				A	65,780
<i>Ops W3BGN K2TW NO2R</i>						WA2VYA	396	61	192	A	272,734
W3FVT				A	100,264	WE3C	4,671	153	626	M2	10,252,419
W3IZ				A	64,493	<i>Ops WE3C KF3B NN3Q W3FV</i>					
W3PP	3,553	148	584	MM	7,173,600	WQ2N				AA	1,075,074
<i>Ops W3PP AJ3G K3WI KW3Z N4FX WB4FDT</i>											

ARRL DX Test Info

CW logs to dxcw@arrl.org. They must be emailed or postmarked by **2359 UTC March 17, 2008** (*Editor's note: that will be 7:59 PM EDT on March 17*).

SSB logs to dophone@arrl.org. They must be emailed or postmarked by **2359 UTC April 1, 2008** (*Editor's note: that will be 7:59 PM EDT on April 1*).

Send your class of entry and score to k3ww@fast.net

I try to grab all **FRC** scores from 3830, but some slip past. **Be sure to have CLUB: Frankford Radio Club** on the log, and keep your robot receipt. It is ALWAYS a good idea to check the ARRL web page for LOGS RECEIVED and see that your log is listed, with the correct category etc. ARRL GIVES NO leeway on late logs, we are talking down to the minute!

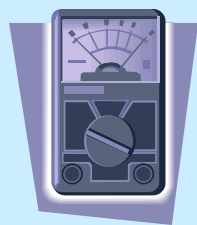
If you need help, send your cabrillo file to **K3WW** and ask for help. I will assume all logs sent to me are for the archives, unless you REQUEST that I upload them for you.

ARRL gives NO credit if you have the Power or RST incorrect in your log, and expects Numbers not abbreviations for cut numbers like, 5NN or 1TT ; for KW stations 1KW, KW and 1000 all seem to be OK.

After the contest, rest for a day or two then look over your cabrillo log for missing info and obvious typos. Then upload it quickly. ARRL penalties for busted calls are fair and it is not worth spending time looking for anything but obvious typos.

ARRL GIVES NO leeway on late logs!!! Get the logs in promptly, then verify. I try to check to see that all logs I know of are in the list at ARRL, prior to the deadline; however, please check your own entry.

73 Chas K3WW



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73 Tim Brown NM3E 610-207-4865

CONTESTING — TIPS, TECHNIQUES, RESOURCES

Reprinted with permission from the December 26, 2007 Contest Rate Sheet

With the plaudits still echoing from last year's inaugural running, Tim K3LR announces that "early bird" registration for Dayton ConTest University (CTU) 2008 is now OPEN. He reports, "The CTU staff is working hard to prepare an interesting and informative curriculum for 2008. CTU will be held in Dayton, Ohio on Thursday May 15, 2008. CTU 2008 will feature some of the best Radio Contest operators and station builders ("CTU Professors). They will present state of the art contesting topics that will increase your knowledge and fun." Thanks to Icom for their support of CTU 2008 and our contesting radiosport. Lots more information and registration information at <<<http://www.contestuniversity.com/>>>, hosted by Scott KA9FOX's QTH.com Web site. Make sure to indicate whether you are a first-timer or returning CTU alumni.

Vilnis YL2KF points out that a Yahoo group especially for discussions about SO1R and SO2R operating. Join up at <<<http://groups.yahoo.com/group/SO1R-SO2R>>> and more members are welcome!

If you are extra-finical about starting the contest at the earliest possible moment, you might want to read this article about ultra-precise clocks <<http://www.wired.com/science/discoveries/news/2007/12/time_nist>> featuring our friends at the National Institute of Science and Technology. (Thanks, Matt WV1K)

Power line interference problems may yield to the information in the Naval Postgraduate School's "Power Line Interference" manual. It's downloadable from the ARRL Technical Information Service at <<http://www.arrl.org/tis/info/HTML/power_line_handbook>> (Thanks, Hank W6SX)

Reprinted with permission from the January 2, 2008 Contest Rate Sheet

The February 2008 issue of QST will soon be hitting the mails and contesters will be pleasantly surprised as they thumb through the magazine. No longer the "last stop", sandwiched between the Silent Keys and the advertising section, contesting content has made its move! You'll find contest results and announcements leading the parade of monthly columns with a fresh graphic style. The Contest Branch joins the stable of columns with "This Month in Radiosport" by Sean Kutzko KX9X. After decades of text, Contest Corral gets a face-lift with a single-page calendar format designed to make it easy for QST readers to see upcoming events at a glance. These changes are just the beginning for the ARRL Contesting Program. Watch for improvements as we refine the new articles and format over the coming months. Work is underway to improve the ARRL Web contesting pages, too. Listen for WIAW in your contest pileups more frequently. Expect to be surprised by colorful graphics and other items that make radiosport more fun to more folks. As goes the new solar cycle, so, too goes the ARRL contesting program. Stay tuned!

The KN4LF Daily LF/MF/HF/6M Frequency Radiowave Propagation Forecast is now free. You can sign up by joining the ad free Braveheart opt-in email mailing list at <<http://www.kn4lf.com/kn4lf6.htm>>. The forecast will also be available via website at <<http://www.kn4lf.com/kn4lf6h.htm>> every Thursday at 2200 UTC. (Thanks, Thomas KN4LF)

Nick VK1AA announces that <http://www.topbanders.com> <<http://www.topbanders.com/>> is back in Business and has been updated effective as of the New Year. The site lists Top Band (160 meters) DXCC totals by region around the world, has recordings of Top Band signals, and other items of interest to low-band DXers.

Frequent flyers and those of us headed to various juicy contest locations may need to be more careful about what types of batteries we pack and how we pack them according to this story <<<http://tinyurl.com/2ak7cg>>> from Information Week magazine. (Thanks, Chris K6DBG)

Randy K5ZD is soliciting logs for input to his Super Check Partial database files <<<http://www.k5zd.com/scp>>>. Now is the perfect time to submit your logs from the Fall contests such as WAE, CQWW, and SS. Just email Randy (k5zd@contesting.com) the same Cabrillo-formatted log that you submitted to the contest sponsor as an attachment.

CONTESTING — TIPS, TECHNIQUES, RESOURCES

Reprinted with permission from the January 2, 2008 Contest Rate Sheet

It's true! Rope (and coax) really does tangle itself up when you're not looking! A recent Science News story <<<http://tinyurl.com/2rfl6m>>> tells the tale. No word on whether scientists have been able to tackle coils of hard-drawn copper-weld yet.

Make a dry run with your logging software well in advance of the contest. If you haven't updated it in a while, that's an especially good reason to take care of the chore at least a week in advance. The morning of the contest is definitely not the time to rework a major component of your station - yet many wait until the last minute. Nothing saps your will and wrecks your score like unplanned off time right at the start as you frantically try to get the computer stuff working properly!

Giving in to the multifarious loopiness of low-band contesting, Dave K8CC offers the following link to a presentation by the K9AY loop's designer - <<<http://tinyurl.com/ytyxco>>>. Ron W8RU contributed this interesting design - <<http://taliaphoto.com/n4is/waller/BIG_DUAL_LOOP.html>>. Rick N6RK has updated an under-used small-loop feed system at <<<http://www.n6rk.com/160RXloop.jpg>>>. The 4' diameter was chosen because this was originally a 2.5 MHz loop for receiving WWV. For 160 meters, a somewhat bigger loop would provide more output. In contrast, both Tim K3LR and Greg K8GL relate that a low dipole (about 5' above the ground) can also be an effective receive antenna.

Kevin KF7CN notes that while tracking down RF interference from audio and video equipment, including computer monitors, be sure to check the quality of interconnecting cables. Using a cable with good shielding and metal connectors is a good and inexpensive first step. Different interfaces can also change the interference level. He reports changing from VGA to DVI eliminated a great deal of monitor-generated noise. Starting with the cables may be an inexpensive first step in cleaning up a noisy (or noise-prone) installation. Fred WA7TZY has discovered that to get a linear power supply replacement for noisy switching supplies (especially low-voltage lighting units), you need to request a "coil and core" unit, since "transformer" is used generically for all power supplies. He says the weight of the unit indicates whether or not it contains a real transformer.

Using feed line length to control phase in an all-driven array is not as simple as it often seems. The electrical length of the line is not necessarily the amount of phase shift that occurs in feedpoint current. The amplitude of current out of the phasing line is usually different than the input current, too. Roy W7EL's excellent article on the subject from the ARRL's Antenna Compendium, Vol 2 is on-line at Roy's EZNEC Web site <<<http://www.eznec.com/Amateur/Articles/Simpfeed.pdf>>>. It's worth the time to read carefully. (Thanks, Jim W6RMK)

If you have problems with twin-lead or window line vibrating in the wind, try twisting the line once per foot or so. This helps keep the line from acting like a wing. This will not prevent the entire line from moving around in the wind - just the annoying flutter. Don't twist the line so much that it wants to collapse the conductors together! If the copper-clad conductors in the line are too stiff or if you have problems with the cladding, try the ladder-line with all-copper wires from <<<http://www.w7fg.net/>>>. (Thanks, Charles W2SH and others)

John K9MM reports good luck removing oxidation from normal stranded hard-drawn copper wire using a product called "Copper Glo Liquid". <<<http://barkeepersfriend.com/copper%20glo.htm>>> On wire that has been exposed to the elements for years it takes awhile to work and more than one application may be required.

<http://www.lz1jz.com>



CONTESTING — TIPS, TECHNIQUES, RESOURCES

Reprinted with permission from the January 23, 2008 Contest Rate Sheet

The North Coast Contesters proudly announce the 16th Annual Dayton Contest Dinner <<<http://www.contestdinner.com/>>>. CQ Magazine's Contest Editor, John K1AR will again masterfully and ceremoniously run the show, featuring Riley Hollingsworth K4ZDH, Special Counsel in the FCC Spectrum Enforcement Division as the keynote speaker! CQ WW Director Bob K3EST will announce the CQ Contest Hall of Fame Inductions, as well. The dinner will be held on Saturday evening, May 17, at 6:30 PM in the Crowne Plaza Hotel. (Thanks, Tim K3LR and to Web hosts Scott KA9FOX and QTH.com)

The Mongolian MRSF QSL Bureau is no longer operating. The QSL bureau for Mongolian QSLs is reached at Mongolian Amateur Radio Society, QSL Bureau, PO Box 830, Ulaanbaatar-24, Mongolia. (Thanks, Khos JT1CD)

Are we excited or what? Solar Cycle 24 now has it's own Web site - <<<http://www.solarcycle24.com/>>>! It's only a matter of time until OI' Sol gets it's own Facebook site. We can only hope! (Thanks, Tim K3LR)

Les NILF reports on an improvement to that simplest of components, the fuse. "Recently, I upgraded my standard fuses with a product called Smart Fuse' <<<http://www.smartglow.com/>>>. These are OEM specification fuses with one key improvement: they incorporate a small built in light that glows when the fuse is blown. It makes troubleshooting much faster, even in poor lighting conditions. Where several radios and accessories may be sharing a power distribution panel, this can be a real aid to quickly identifying the problem, and getting back on the air. They do cost more than standard fuses, but I think the potential time savings in troubleshooting makes them worth the expense." Smart Fuses are probably available from your local auto parts store.

If you want to scan a band, but don't have a spare spectrum analyzer to dedicate to the job, there's an alternative. Joe K8FC suggests that you can do the job for a relatively small investment, a software-defined radio (SDR), such as one of the Softrock kits

<<<http://www.softrockradio.org/>>> combined with Rocky

<<<http://www.dxatlas.com/Rocky>>> or Power SDR

<<http://www.wu2x.com:80/sdr.html> <<http://www.wu2x.com/sdr.html>>> software. These are pretty amazing packages!

Here's a couple of previously unreported sources for ferrite items: Lodestone Pacific <<<http://www.lodestonepacific.com/fair-rite.php>>> Misk Antenna Research <<<http://exax.net/>>> Misk's site also has a lot of information on Beverage antennas. (Thanks to a pair of Johns, W0UN and ON4UN)



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

New Reach Number: 908 391 5611 (Mobile)



FEBRUARY 24th Year 2008

Notes From Your Editor

Thanks to those of you who sent in comments regarding the possible changes to the FRC Honor Roll. To summarize the majority of responses: do no discontinue the 1.5K Club, if the DXCC Challenge is added and poses a space problem then drop Mobile.

What I'll do then is to add a DXCC Challenge section and try to compact things a bit to make room for it. I'll only drop the Mobile listings if the Challenge listing causes the Honor Roll to expand beyond a page. All of the current FRC Honor Roll categories were created by me and I developed the rules. Since the Challenge is an already defined program, we'll abide by the official program rules: grand total of active countries confirmed (note: deleted countries do no count for this one) on all bands 160 through 6 meters with the exception of 60 meters. So, please send me your DXCC Challenge total and I'll try to begin it with next month's column.

Speaking of the FRC Honor Roll, it's that time again: annual clean up of inactive listings. Here's the deal: if your totals have not changed since January of last year, I need to hear from you to let me know that you want to continue to be listed. Otherwise, I'll assume that you are no longer interested and remove your call. Not trying to make anyone feel bad, I just do this each year in order to insure that the listings remain active and vibrant.

WFRC Award

K2FL has been the WFRC awards manager forever and from Jack comes the following statistics: from 1955 to 2008 Jack has issued 1,470 certificates. The award applicants breakdown as follows:

Table with 3 columns: Region, Percentage, Count. Rows include Europe (56%, 824), USA (22%, 328), Asia (10%, 142), Africa (5%, 72), South America (4%, 54), Oceania (3%, 50).

From The DXCC Desk

The DXCC has announced the following operations are now approved for DXCC credit:

Table with 2 columns: Call Sign, Location. Rows include 6E4LM (Revillagigedo), FJ/OH2AM (Saint Barthelemy), TN6X (Rep of The Congo), TN9Z (Rep of The Congo), TT8PK (Chad), XF4YK (Revillagigedo), XF4YW (Revillagigedo), YK9SV (Syria).

OFFICIAL ARRL DXCC STATS

Table with 2 columns: Stat, Value. Rows include Active Count (338), Deleted Count (58), Last Addition (FJ), Last Deletion (STØ).

3B8 MAURITIUS

CW lives! G4FKH will be signing as 3B8/G4FKH from February 5th to March 14th in a CW only vacation dpxpedition. Look for him on 40 through 10 Meters and QSL to his home call.

E5/S SOUTH COOK ISLANDS

Look for AD7AF signing as E51WWA from the South Cook Islands from now until February 21st. Activity is on 10 through 80 Meter CW and SSB. QSL to his home call.

JD1/M MINAMI TORISHIMA

With a focus on the low bands, concentrating on North America and Europe, JA6GXX should be active as you read this until February 19th as JD1BMM.

S2 - BANGLADESH

SM4XDJ is currently active as S21XJ from Dhaka and will be there for the next several weeks. He is on SSB and digital modes during weekends and his local evenings, as time permits. QSL via SM4XIH. On-line logs are available at http://fittest.nu

Also active in his spare time from now until March 11th is KX7YT as S21YV. Operation is mainly SSB, PSK31 and RTTY and some SSTV and CW. QSL via KX7YT.

VP6/D DUCIE ISLAND

A 13 member international team will be activating Ducie Island from February 11th to 27th. Operations will be on all bands 160 thru 6 Meters SSB, CW and RTTY as VP6DX and if you can believe this, they plan to have 7 active stations on air! Many more details including full QSL info, online logs, etc can be found at: http://www.vp6dx.com

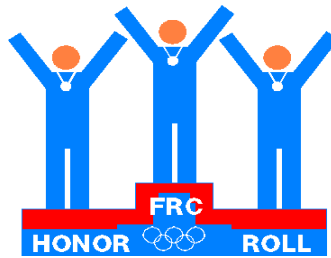
DX ALERT LEGEND box containing icons for 160 METER ALERT, IOTA ALERT, Digital Mode ALERT, and WARC BAND ALERT.

N 2 Special Salute

SS to K2FL. Have you made your contribution yet? Contribute to your Newsletter and get the "S" "S". ©

73, Tony N2SS

You can reach me as follows: H:856-227-4896 C:609-221-4899 n2ss@n2ss.com



FEBRUARY *conducted by N2SS* **2008**

WARC BANDS

<u>30 Meters</u>	<u>17 Meters</u>	<u>12 Meters</u>
K2FL.. 336	K2FL...340	N2TK ..330
N2TK333	N2TK 339	K2FL.....327
N2LT324	N2LT 336	N2LT322
W3BGN323	W3BGN ... 333	W3BGN ...317
W2YC308	W3CF 332	WØMHK ..310
N2SS295	N2SS 324	N2SS303
W8FJ298	WØMHK. 322	W3CF303
K2PS289	W2UP 319	W2YC278
W2UP288	W2YC 312	K2PS269
WØMHK ..279	K2PS 310	W2UP267
N3RD278	W8FJ 298	W8FJ233
K3II234	N1RK 259	N1RK218
W2LE221	K3II 256	K3II203
W2IRT212	W2LE 244	W2LE198
W2RQ182	W2IRT 241	N3KN191
AA2WN....174	K2AX 224	W2YR187
N2VW165	W2YR 202	NA2U156
AB2E146	W2RQ 192	W2IRT122
K3CT134	N3KN 171	W2RQ119
W2YR131	NA2U 167	W2IRT105
N1RK127	K3ND 127	AB2E92
N3KN126	K3CT 126	K3CT83
NA2U110	N2VW 123	K2AX77
K3ND91	AA2WN...122	N2VW35
K2AX72	AB2E 121	K3GYS30
W3CF61	K3GYS 85	AA2WN20
K3GYS17		

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

W3BGN303	K2PS 109
AA1K297	N2VW 103
WT3Q272	AB2E 100
N2LT262	W2CG 95
N2TK255	W2IRT 93
NO2R243	K2AX 91
K3SX241	NA2U 83
W8FJ231	W2YR 81
W2UP214	N2SS 79
K3JJG215	W3CF 77
W2YC201	K3NL 70
W2RQ166	W2LE 64
K3II160	K3CT 63
N3RS156	N1RK 51
WØMHK152	AA2WN 50
K2FL147	N3KN 34
K3ND137	K3GYS 12

Awesome! With 301 countries W3BGN continues at the Top of Top Band!

Digital

W2UP341	W2YR 132
N2LT338	KQ3F 132
K2PS297	W2CG 66
W2YC276	N2SS 53
AA2WN187	N1RK 39
N3KN181	K3GYS 15
W2IRT159	W8FJ 12
W2LE141	

MOBILE DX

AA1K277	K3GYS 143
W2YC276	AA2WN 131
N2SS234	W2YR 28

Well, he's done it! Jon is now our official B ig W heel.

1.5K Club

K2FL..... 1724	K3II 1449
W3BGN 1711	W2CG 1408
N2TK 1702	W3CF 1403
N2LT 1698	AA2WN 1379
W2UP 1682	NA2U 1365
W2RQ 1645	N2VW 1315
N3RS 1632	N1RK 1300
W8FJ 1612	W2LE 1193
W2YC 1584	AB2E 1185
N3RD 1573	K3CT 1180
NO2R 1556	W2YR 1153
K2PS 1539	N3KN 1120
N2SS 1537	W2IRT 1087
K3ND 1508	K2AX 1063
WØMHK 1478	

Islands On The Air

K2FL..... 1021	N2VW275
N2SS 845	W3CF253
W2YC 656	W2YR244
W8FJ 623	W2IRT232
WØMHK381	K3GYS232
N1RK 555	AB2E205
WA3RHW292	

6 METER DXCC

N2LT..... 110	N3KN52
K2PS 108	W2YR44
WØMHK 106	W2YC29
AA1K 99	K2AX21
K3OO 90	N2TK20
K3SX 75	AA2WN15
N1RK 57	K3GYS10
N2SS 55	

N2LT is right back at the top of 6 Meters!



THE FRANKFORD RADIO CLUB NEWSLETTER

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



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The Frankford Radio Club

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

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