



THE FRANKFORD RADIO CLUB NEWSLETTER

PROFICIENCY THROUGH COMPETITION

CALENDAR

March 2005:

- 5-6 ARRL DX Test, SSB**
- 8 FRC Main Meeting, Phila**
- 8 Remy Meeting B**
- 17 T.I.T.S. Meeting, Noon**
- 19-20 Russian DX Contest
- 22 Remy Meeting B**
- 26-27 CQ WPX Contest, SSB

April 2005:

- 2-3 SP DX Contest
- 9-10 JIDX CW Contest
- 12 FRC Main Meeting, Phila**
- 12 Remy Meeting B**
- 16-17 YU DX Contest
- 21 T.I.T.S. Meeting, Noon**
- 23-24 Helvetia Contest
- 23-24 Florida QSO Party
- 26 Remy Meeting B**
- 26-27 CQ WPX Contest, SSB

May 2005:

- 10 FRC Main Meeting, Phila**
- 10 Remy Meeting B**
- 14-15 CQ-M DX Contest
- 14-15 Mid-Atlantic QSO Party
- 19 T.I.T.S. Meeting, Noon**
- 24 Remy Meeting B**
- 28-29 CQ WPX Contest, CW

CHANGES

None this month

Deadline for April issue:

Wednesday, March 27, 2005

President's Column

Time is flying by lately. Seems like just a few days ago I was writing the February newsletter.

And now March will be due in a few days but being that I have to go down to V4 again I figured I would get a head start.

At this month's meeting we will have elections for our new club officers and we do have a slate of officers. For president, John **K3ZV** has been nominated. Vice president nomination is Art **N3DXX**. Secretary nomination is Rick **N2RDS**. If any one else has any nominations be sure to attend this meeting and let them be known.

Now to an important subject. The 2005 ARRL PHONE CONTEST will be on March 5th and 6th. As I have said before, in order for us to WIN CONTESTS we need every member to participate. So I'm asking all members...if you want the **FRC** to be the unlimited category winners again this year, give some extra time and effort to the goal of the **FRANKFORD RADIO CLUB**

Winning the 2005 ARRL CONTESTS. It was extra sweet to beat the YCCC last year so let's do it AGAIN.

Do not forget our Dxpeditions. They will make many points for us so make a list of who is going where and try to work them on 6 bands. Doug, **W3CF**, has an operating list going again which is a big help. Please let him know where you will be operating from.

Good luck in the contest and have fun.

73, Joe, K3NM/V47NM

FRC ARRL DX SSB DXpeditions

PJ4G, WP2Z, 9Y4W, P40W, V47KP

MEETINGS

Main Meeting Back in Philadelphia

The main monthly meeting of the **Frankford Radio Club** will be held Philadelphia on Tuesday, March 8 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, March 17 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..

— . . . —



Work Wanted:

SPRING'S AROUND THE CORNER....THINKING ABOUT ANTENNA WORK?

Experienced climber available to perform antenna and tower maintenance.

Remove/install antennas, repair feedlines, rotator replacements, guy wire renewal, expert tower painting, and new tower installations or replacement. Reasonable hourly rates.

Contact: John Crovelli **W2GD**

W2GD@hotmail.com

908 996 3043 (Home Office)



FOR SALE: \$2195.00

TS-950SDX Includes:

- ◆ Both (2) 500hz cw filters
- ◆ Remote RM-1 for internal voice/cw keyer
- ◆ Internal antenna tuner.
- ◆ IF-232c computer interface
- ◆ Kenwood SP-950 external speaker with filters
- ◆ Original boxes

Will sell radio with out options if interested.

Contact Rick **K300** k300@k300.com

[CONTESTING — TIPS, TECHNIQUES, RESOURCES](#)

Reprinted with permission from the February 9, 2005 ARRL Contest Rate Sheet

The North Coast Contesters announce that tickets for the 13th Annual Dayton Contest Dinner are on sale now! (Special thanks to DX Engineering for sponsoring the tickets.) Master of Ceremonies will be John Dorr K1AR. The 2005 Contest Hall of Fame Inductions will be formally announced by the CQ World Wide Contest Director and CQ Contest Hall of Fame member, Bob Cox K3EST. The dinner will be held in the Van Cleve Ballroom of the Crowne Plaza Hotel on Saturday, May 21, at 6:30 PM. The hotel is located at 5th and Jefferson Streets (Next to the Convention Center) in downtown Dayton (Downtown). Tickets are \$33 per person and seating is limited to 300, so order your tickets promptly via the Radioware and Radio Bookstore at <http://www.radio-ware.com/>. Deadline for ticket orders is 7 May and no tickets will be available at the door. (Thanks, Tim K3LR)

In case you haven't heard, there are a few rule changes for the 2005 edition of ARRL Field Day. These affect categories, bonus points, and other aspects of our favorite summertime non-contest activity. Check them out at <http://www.arrl.org/contests/rules/2005/rules-fd-2005.html> and there is an ARRL Web story at <http://www.arrl.org/news/stories/2005/02/02/2/?nc=1>.

The following Web site will give customized sunrise/sunset for almost every city in the USA - <http://www.sunrisesunset.com/usa/>. Select your state and city, then select Astronomical Twilight to get the actual sunrise/sunset times for each day of the selected month. (It prints best in "landscape" orientation.) The US Naval Observatory site, http://aa.usno.navy.mil/data/docs/RS_OneDay.html, is also quite good. For standalone software, Geoclock is the best, but a simple free program by W4SM is TrakSM which is available at <http://www.keplerian.com/> (Thanks, George K8GG and Matt WV1K)

Matt WV1K also contributes this neat link to a site that lists Big Towers - http://en.wikipedia.org/wiki/List_of_Masts. If your ego is threatened by towers larger than yours, don't go there.

Somewhat simpler and easier to deal with than a ground plane antenna on Top Band, John W2GD recommends the vertical dipole he uses at P40W. The big advantage is that no ground system is required, although ground screens help cut losses. An 80/160 version of the antenna is described at http://www.yccc.org/Articles/double_1.htm. Tuning the antenna is easy - adjusting the length of the lower leg. Try to pull the top leg out as horizontally as possible, but it will still work even with a significant angle toward the ground.

Reprinted with permission from the February 23, 2005 ARRL Contest Rate Sheet

Howard VE3GFK/W6 recently put up an 85-foot crankup tower and took lots of photos of both preparing the base and getting the tower to the vertical position. Hey, it beats helping! You can see the photos at <http://www.kleega.com/tower/> (the base) and <http://www.kleega.com/erection/> (raising the tower).

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



CONTESTING — TIPS, TECHNIQUES, RESOURCES

Reprinted with permission from the February 23, 2005 ARRL Contest Rate Sheet

An innocent question about the temporary waterproofing of coax connectors unleashed a torrent, so to speak, of ideas on the TowerTalk reflector (<http://www.contesting.com/>). Here are some of the better ones:

- Sections of bicycle tire inner tubes
- Fingers cut from rubber gloves
- Plumber's putty, Silly Putty(R), and duct sealing compounds
- The ubiquitous CoaxSeal(R)
- Long, thin balloons
- CushCraft's PL-259 boots, available direct
- Plastic soda bottles

Contributors were too numerous to credit individually - thanks, one and all.

Since we're on a roll with help from the community, more TowerTalk debate (see previous message) covered the art of getting aluminum tubing sections separated. A few pearls for your perusal:

- heat the outer tube briefly with a propane torch
- lots of penetrating oil and/or WD-40 (with extreme care around a torch)
- continuous twisting in one direction while pulling
- driving out the inner tube with a steel rod
- use a handheld cutting tool to "slot" the outer tube

The suggestion with the most resonance for me (from a company that sells tubing, in the spirit of full disclaimer) was to, "junk the stuck tubing and get new stuff." Having remodeled a house, I can relate to that. Thanks to the TowerTalk community, once again.

This safety information was contributed courtesy of Tom K1KI. "Once in a while I hear of hams climbing towers during a contest to fix problems. This is most common in a multi-op situation when one antenna has a problem and someone goes to fix it while the rest of the team continues to operate on other bands. This is what stimulated my thinking: <http://www.fcc.gov/eb/FieldNotices/2003/DOC-255968A1.html.%22> Ed Hare W1RFI, the ARRL's RF exposure expert, replied, "Controlled exposure is averaged over 6 minutes. [That's the case here - Ed.] This is not a time limit, but the time period over which exposure must be averaged. If the ham is 1 meter from the antenna, he is about 40 dB over the limits that require an exposure calculation." Ed points out that the field strength calculations in the near field is not simple. Ed's real bottom line? "Don't do it!"

The free HFradio and propagation eAlert service (<http://hfradio.org/donation.html>) is run by Tomas Hood NW7US at <http://propagation.hfradio.org/>. The service includes alert email notifications of significant events. If you find yourself making use of these services, please consider supporting the site with a small donation.

The Bucket Boss Company offers a jumper cable storage bag that is just right for rolls of coax. It is a round flat bag about 13" in diameter made of sturdy cordura nylon with webbing handles and a heavy duty zipper that opens it up for about 80% of the circumference. It will handle 3+ inches of coiled coax, and there is room in the center for short lengths. There are probably a variety of similar products at auto parts and hardware stores. (Thanks, Lynn N7CFO)

Ed KA7UKN reminds us of a great way to demagnetize tools or other small metal parts. "I had a screwdriver that was magnetized and it was driving me crazy (no pun intended). I grabbed my trusty Weller 250-watt gun, pressed the trigger and passed the screwdriver through the loop formed by the tip. In a second or two I had the desired results. It was so fast and so effective that I purposely magnetized the tool over again with the strongest bar magnet that I have. A few passes between the loop formed by the solder gun's tip degaussed the tool. Where has this been all of my life?"

New ARRL COO Harold Kramer, WJ1B, Wants Bright Future for Amateur Radio

New ARRL Chief Operating Officer Harold R. Kramer, WJ1B, says he is looking forward to having an active role in confronting and resolving issues that may cloud Amateur Radio's future. The 56-year-old Cheshire, Connecticut, resident officially joined the ARRL Headquarters staff February 15, replacing Mark Wilson, K1RO, who stepped down last September. In his new role, Kramer says, he wants very much to be a part of the solution to keeping Amateur Radio vibrant.

"I not only want to ensure a future for Amateur Radio, I'd like to see it thrive," he said. Kramer wants the ARRL to augment efforts advocating Amateur Radio as a great leisure-time activity that also offers lifelong opportunities for both learning and public service. But he also concedes that there's no single answer to assuring a bright future for Amateur Radio.

"A lot of things have to happen," he said. "These include an ongoing emphasis on public service. That's something we need to continue doing." As the Emergency Coordinator for Cheshire and an alumnus of the ARRL Amateur Radio Level I emergency communications course (he's working on Level II), Kramer's clearly willing to walk the walk. Besides public service work, he's a CW enthusiast.

A radio amateur since he was a teenager and possessing an education that spans the arts and the sciences, Kramer may be in an ideal position to foster his vision for ham radio's future. He holds an associate degree in electronic technology from the University of Hartford's Ward Technical College, where he still teaches an introductory course in electricity and electronics. He also holds a BA in English and an MA in education (Instructional Media and Technology) from the University of Connecticut. Kramer served previously as vice president for strategic planning, business development, and education at Connecticut Public Broadcasting. Prior to that, he was employed in the cable television industry.

ARRL Chief Executive Officer David Sumner, K1ZZ, noted that Kramer's selection culminated an intensive search process. "Harold brings to the ARRL staff an outlook and relevant skills developed in both the for-profit and non-profit sectors," he said. "That, coupled with a lifelong love of Amateur Radio, makes him a strong addition to the ARRL management team."

Kramer says he'd like to see the ARRL firm up its position as an educational resource that enjoys a complementary role in turning out a better-trained technical workforce that's aware of current wireless technology and techniques.

"I'm convinced that ham radio gave a lot of people a career kick start, and that needs to continue," he said. Additionally, he'd like to promote Amateur Radio as an avocation that can adopt and integrate the Internet and other modern telecommunication technologies--and even developments still beyond the horizon.

At the same time, Kramer doesn't want to lose sight of the League's primary commitment. "I want ARRL to continue its tradition of excellent service to its members," he said. "Things like contesting, awards, technical support, our publications--those are things we want to continue to emphasize because that's really our main business."

FCC Proposes Holding the Line on Vanity Call Sign Fee

The FCC has proposed retaining the current \$20.80 Amateur Radio vanity call sign regulatory fee for the 10-year license term. The fee went from \$16.30 to \$20.80 last August. In a Notice of Proposed Rulemaking (NPRM), "Assessment and Collection of Regulatory Fees for Fiscal Year 2005" (MD Docket 05-59) released February 15, the FCC says it's proposing to collect more than \$280 million in regulatory fees for fiscal year 2005, as mandated by Congress "to recover the regulatory costs associated with the Commission's enforcement, policy and rulemaking, user information, and international activities."

The FCC anticipates 8000 vanity call sign applications during FY2005--up from 7800 applications in FY2004--and it expects to raise \$166,443 from vanity call sign fees. More information on vanity call signs is available on the ARRL Web site <<<http://www.arrl.org/arrlvec/vanity.html>>>.

ARRL Tells FCC to "Reconsider, Rescind and Restudy" BPL Order

The ARRL has petitioned the FCC to take its broadband over power line (BPL) Report and Order (R&O) back to the drawing board. In a Petition for Reconsideration filed February 7, the League called on the Commission to "reconsider, rescind and restudy" its October 14, 2004, adoption of new Part 15 rules spelling out how BPL providers may deploy the technology on HF and low-VHF frequencies. Asserting that the R&O fails to adequately take into account the technology's potential to interfere with Amateur Radio and other licensed services, the League called the FCC's action to permit BPL "a gross policy mistake." The R&O, the ARRL said, "represents a classic case of prejudgment" by an FCC that knew better but ignored evidence already at its disposal.

"It is readily apparent that the Commission long ago made up its mind that it was going to permit BPL without substantial regulation, no matter what the effect of this flawed application of old technology is on licensed radio services," the League's petition declares. The ARRL accuses FCC Commissioner Michael Powell and his four colleagues of deliberately authorizing "a spectrum pollution source" that's proven to be incompatible with existing licensed uses of the HF spectrum.

"The Commission wanted nothing to contradict its enthusiasm about BPL," the League said, and its Office of Engineering and Technology (OET) saw to it that evidence of the "fundamental incompatibility" between BPL and incumbent HF radio services "was suppressed, ignored or discredited." The FCC has not adjudicated a single interference complaint, the ARRL added, but has swept interference complaints under the rug.

While expressing appreciation for Commissioner Michael Capps' concerns regarding BPL's potential to interfere with Amateur Radio and his call for quick complaint resolution, the League said his admonition "has not been heeded by either the Enforcement Bureau or the Office of Engineering and Technology."

In the filing, which included several technical exhibits to bolster its major points, the ARRL further argued that Powell--a self-described "cheerleader" for the technology--the ARRL further argued that Powell should have recused himself from voting on the R&O. The chairman, the ARRL says, violated the FCC's own ex parte rules by attending a BPL provider's demonstration October 12, after release of the October 14 agenda. Powell "tainted this proceeding" by taking part in the demonstration, and that alone is sufficient to have the Commission vacate and reconsider its action, the ARRL alleged.

The League also said the FCC's "late and incomplete" responses to ARRL's Freedom of Information Act (FOIA) requests fail to show any support for FCC's conclusions regarding interference to licensed services from BPL. The highly redacted information release contained nothing that supports the FCC's conclusions about BPL's interference potential and suppressed negative recommendations from its own technical investigators, the petition says. As a result, the League said, the Commission "failed to conduct impartial, reasoned rulemaking."

The Commission used an unlawful "balancing test" that weighed BPL's purported benefits against its interference to licensed services, the League asserts, creating "a hierarchy of licensed radio services" based upon "how much interference each service deserves." The Communications Act, the League's petition points out, requires an objective determination from the outset that the likelihood of harmful interference from a proposed unlicensed service is virtually nil.

The interference mitigation rules in the R&O are both ineffective and inequitably applied, the ARRL's petition further argues. Noting the new rules do not require BPL systems to shut down in the event of interference except as "a last resort," the League said the practical effect is "that systems will never have to shut down," even if the BPL operator has not been able to remedy ongoing harmful interference to the Amateur Service. The new rules, the petition charges, accord priority to unlicensed BPL, "regardless of the preclusive effect" or the duration of interference.

In its unanimous BPL decision, the Commission, the League says, has abandoned its fundamental obligation to avoid interference in telecommunication systems, instead requiring complainants to initiate contact with BPL providers and "beg for resolution." The ARRL petition also faults the Commission's adopted measurement standards.

Some New Wrinkles in 2005 Field Day Rules

Those planning to participate in this year's Field Day will need to bone up in advance on a few changes in the rules for the ever-popular operating event. Field Day this year takes place June 25-26. The 2261 Field Day entries for 2004 were the most ever. While similar in format to a contest, Field Day is primarily a means to exercise and demonstrate Amateur Radio's emergency operating capabilities while having fun at the same time. ARRL Contest Branch Manager Dan Henderson, N1ND, says that among other things rule changes for 2005 expand eligibility for bonus points.

"All groups will be eligible for some kind of bonus points," Henderson said. "Make sure you carefully read Field Day Rule 7.3." That rule spells out how to qualify for such bonus points as 100 percent emergency power, media publicity, message handling, making satellite contacts, using an alternative power source and copying the W1AW bulletin, among other things. Many bonus point categories are available to all entry classes.

Henderson notes that some large clubs often compete among themselves to see who can claim the highest number of transmitters. Under the revised rules, all transmitters must be on the air with an operator to count toward a club's entry class. "You have to actually have individual people and sufficient equipment capable of operating simultaneously," Henderson emphasized, referencing Rule 4. "The key word there is 'simultaneously.'"

The Field Day exchange consists of the number of transmitters on the air followed by the participation category (A through F). Operators would send "3A," for example, for a club or non-club portable setup with three transmitters on the air at the same time. Rule 4 also specifically prohibits switching and simulcasting devices.

The 2005 Field Day rules also modify the number of transmitters eligible for bonus points that a group can claim for its operating class. "You can only claim the emergency power bonus points for up to 20 transmitters," Henderson explains. "That's a maximum of 2000 emergency power bonus points." There no limit on the number of transmitters eligible participants may have on the air, however. Field Day rules already generally prohibit the use of more than one transmitter at the same time on a single band-mode.

In addition, Field Day 2005 will introduce a new "Youth Element" bonus category (Rule 7.3.15). Clubs or groups operating in Class A, C, D, E or F now can claim 20 bonus points--up to a maximum of 100--for each person aged 18 or younger, who completes a valid Field Day contact. Single-operator Class B stations can earn a 20-point bonus if the operator is age 18 or younger. Two-person Class B setups can claim a 20-point bonus for each operator age 18 or younger, for a maximum of 40 points. The maximum number of participants for Class B entries remains at two.

Another rule change clarifies that Get On The Air (GOTA) stations--instituted a few years ago to encourage new or comparatively inexperienced operators to gain operating practice--use the same exchange as the "parent" station. The maximum transmitter output power for GOTA stations is 150 W, and GOTA stations may only operate on the Field Day HF bands. Free transmitters do not count toward a group's total, and GOTA stations and free VHF stations for Class A entries do not qualify for bonus point credits.

Henderson encourages Field Day participants to submit their Field Day summaries electronically using the Web applet form <<<http://www.b4h.net/cabforms>>>. "You may input your summary information at that site for a 50-point bonus," Henderson points out. The Maritime Radio Historical Society's K6KPH, comprised of former operators of the KPH commercial shore station, now an historic site, again will augment W1AW Field Day CW and RTTY bulletin transmissions for West Coast participants. The complete 2005 Field Day packet now is available on the ARRL Web site <<<http://www.arrl.org/contests/forms/05-fd-packet.pdf>>>.



Notes From Your Editor

Don't forget, I'll be doing the annual Honor Roll clean-up during the next month. Thus, the April listings will reflect only active participants based upon you having provided input during the last year – even if it is just to say you have no changes but want to continue to be listed.

OLDEST FRC QSL

I'm always looking for ideas to help make the column more interesting. (Got an idea? Send it to me!) This one is mine, so don't be afraid to shoot it down! Each month I'll publish an image of the oldest QSL card to have been received by an FRCer. What that means is that I need you to do a scan or take a digital photo of the oldest QSL you have laying around and email it to me at n2ss@n2ss.com So, dig through those shoe boxes and let's see what you got!

CURRENT OFFICIAL ARRL DXCC STATISTICS

Active Count.....	335
Deleted Count	58
Last Addition.....	VP6/D
Last Deletion.....	STØ

3YØ – PETER I ISLAND

Unfortunately, this DXpedition looks like one for all the Philadelphia sports teams fans: "wait until next year!"

FT5X – KERGUELEN

Several months ago Tim, N4GN, announced that a multinational team of twelve highly experienced operators from France, Ireland, Switzerland, Canada, Australia, Singapore, South Africa and the

United States will activate Kerguelen on the HF bands between 15 March and 02 April, 2005. The group has been quiet ever since (at least at this writing), so I am not sure what to expect at this point. In any case, be alert and WFWL.

FY – FRENCH GUIANA

March 7th to 17th will find a group of French operators signing as TO7C from Ile du Salut, IOTA SA-020. Operation will be on all bands 160 through 6 Meters, CW, SSB and Digital modes. QSL to F9IE.

JT – MONGOLIA

IØSNY will be active as JT1Y from Ulan Batar from April 20th to May 8th. On April 25th-26th he will be signing as JT2Y from Choybalsan. QSL via his home call.

NEW DXCC ENTITY or just KH8 – AMERICAN SAMOA???

On the belief that Swain's Island may count as a separate DXCC entity, the American Samoa Amateur Radio Association has announced that a team of nine operators: JA1BK, K1ER/KH6, JH1JGX/AH7C, JR2KDN, F6EXV, N9TK, W0MY, KB6NAN and W9IXX, will be active as KH8SI from Swains Island (OC-200) from March 2nd to 6th. They plan to operate on 160 through 10 Meters CW, SSB and RTTY with four complete HF stations, including amplifiers and beams. Operating frequencies will be: 1822.5, 3505, 7005, 10107, 14025, 18073, 21025, 24895, 28025 and 50110 kHz (CW); 3795, 7080, 14195, 18140, 21295, 24930, 28495 and 50110 kHz (SSB); 14088 kHz (RTTY). QSL via VE3HO:

Garth Hamilton
P.O. Box 1156
Fonthill, Ontario LØS 1EØ

CANADA

SU – EGYPT

This is a first ever SU IOTA operation. So, you get an opportunity at a rare country and a brand new IOTA, if you chase those things. Hossam/SU1HM, Said/SU1SK, Tarek/SU2TA and Sayed/SU1SA plan to operate as SU8IOTA from Disuqi (aka Nelson) Island in the Nile Delta and Sinai Region Group from April 23rd to May 1st. QSL direct to SU1SK:

Said Kamel
P.O. Box 190
New Ramsis Center
Cairo 11794 EGYPT

XV – VIETNAM

JA9BV and JA3DYU will be operating from Vietnam March 14th-17th. CW frequencies will be 3515, 7014, 14040, 21040 kHz and SSB frequencies will be 3540, 7040, 14160, 21160 kHz. Call signs used will be XV3BV and XV3DYU. QSL to their home QTH or bureau.

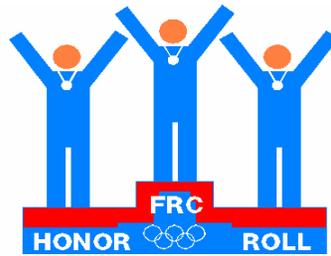
DX ALERT LEGEND	
	160 METER ALERT
	IOTA ALERT
	RTTY ALERT
	WARC BAND ALERT

"S"pecial "S"alute

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

73, Tony N2SS

You can reach me as follows:
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n2ss@n2ss.com
argargano@comcast.net



MARCH **CONDUCTED by N2SS** **2005**

WARC BANDS

<u>30 Meters</u>	<u>17 Meters</u>	<u>12 Meters</u>
K2FL.. 331	K2FL...335	N2TK ..327
N2TK326	N2TK 334	K2FL..... 326
N2LT313	N2LT 331	N2LT..... 319
W3BGN311	W3CF 331	W3BGN... 312
K2RW296	W3BGN ... 325	W3CF 303
W2YC292	K2RW 324	N2SS..... 302
W8FJ286	N2SS 319	K2RW 300
N2SS284	K2PS 302	W2YC 272
K2PS281	W2YC 295	K2PS..... 268
W2UP248	W2UP 293	W2UP 247
N2MM233	W8FJ 291	W8FJ..... 228
N3RD232	N2MM..... 268	N1RK..... 218
K3II222	N1RK 253	KQ3F 215
W2LE212	KQ3F 245	K3II..... 202
NZ3O188	K3II 237	K2NJ..... 190
KQ3F182	NZ3O 233	NZ3O 188
AA2WN...171	W2LE 202	W2YR 186
W2RQ144	W2YR 194	N2MM 185
W2YR130	K2NJ 179	W2LE 176
AB2E124	K2JF 168	N3KN 176
K2NJ113	NA2U 162	NA2U 154
K2JF112	N3KN 147	K2JF 135
NA2U105	W2RQ 142	AB2E 92
N1RK97	K3ND 119	W2RQ 62
N3KN85	AA2WN ... 116	K3GYS 30
K3ND76	AB2E 105	N2VW 27
N2VW71	K3GYS 85	AA2WN..... 20
W3CF61	N2VW 65	W2CG 1
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

W3BGN291	K2PS 106
AA1K285	K2RW 93
N2LT244	AB2E 87
N2TK240	W2CG 85
K3SX224	W2YR 80
NO2R208	N2SS 79
W8FJ202	NA2U 78
W2UP186	N2VW 77
K3JG186	W3CF 77
N2MM182	K3NL 70
K3NZ172	K2NJ 59
W2YC171	NZ3O 55
K3NM156	KQ3F 54
N3RS156	N1RK 42
K3II149	AA2WN 36
K2FL141	K2JF 34
K3ND136	W2LE 28
W2RQ123	K3GYS 12

W3BGN continues as the undisputed Top of Top Band.

DIGITAL

W2UP335	W2YR 122
N2LT329	K2JF 113
K2PS285	W2LE 85
W3SB268	KQ3F 78
K2RW266	N2SS 53
W2YC238	N1RK 39
K2NJ235	K3GYS 15
AA2WN187	W8FJ 12
N3KN165	

MOBILE DX

W2YC276	K3GYS 143
AA1K270	AA2WN 131
N2SS234	W2YR 21
K2JF150	

1.5K Club

K2FL..... 1707	K2NJ.....1406
W3BGN 1695	W3CF1403
N2TK 1685	AA2WN.....1369
N2LT 1676	K2JF1350
W2UP 1659	NA2U1335
W2RQ 1623	W2CG1305
K2RW 1610	N1RK.....1287
W8FJ 1591	N2VW1258
N3RS 1581	K3CT1177
N2MM 1524
W2YC 1533	W2LE1141
N2SS 1518	W2YR.....1138
N3RD 1517	W3SB1132
K2PS 1516	K3NM.....1107
NO2R 1516	NZ3O1088
K3ND 1496	N3KN1065
KQ3F 1446	AB2E1055

Islands On The Air

K2FL..... 984	NZ3O317
N2SS 811	N2VW259
W2YC 600	W3CF253
W8FJ573	W2YR.....230
N1RK540	K3GYS215

6 METER DXCC

N2LT..... 106	N1RK.....57
K2NJ 100	N2SS.....55
AA1K 98	K2RW42
K2PS 96	W2YR.....41
K2JF 94	W2YC.....19
K3SX 75	AA2WN.....15
K3OO 71	K3GYS10
N3KN 61	



THE FRANKFORD RADIO CLUB NEWSLETTER

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



Affiliated Club

The Frankford Radio Club

Club Officers

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Printing, **K3ZV**, John Lindmeier856-768-5348

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Repeater - 2 meters, 147.27/147.87 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

144.930 W3FRC
145.010 N3ED
145.650 K2TD
145.530 K3WW
145.530 AA1K
145.570 WT3Q
145.570 K2TW
145.590 N2NT
144.950 K3ZV
145.730 N2BIM
147.495 W3MM
145.670 W3PP
TBA W2JT

Telnet DX Cluster

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k3ww.gofrc.org 7300
w3frc.gofrc.org 7300