



THE FRANKFORD RADIO CLUB NEWSLETTER

PROFICIENCY THROUGH COMPETITION

CALENDAR

June 2007:

- 12** **Rexy Meeting B**
- 16-17 All Asian DX Contest, CW
- 21** **T.I.T.S. Meeting, Noon**
- 23-24 ARRL Field Day
- 26** **Rexy Meeting B**

July 2007:

- 1 RAC Canada Day Contest
- 9** **Rexy Meeting B**
- 14-15 IARU HF World Champ.
- 15** **Summer Meeting, N3RD**
- 19** **T.I.T.S. Meeting, Noon**
- 23** **Rexy Meeting B**

August 2007:

- 4-5 No. American QSO Party, CW
- 11-12 Worked All Europe Test, CW
- 11-12 Maryland-DC QSO Party
- 14** **Rexy Meeting B**
- 18-19 No. American QSO Party, SSB
- 18-19 New Jersey QSO Party
- 15** **Summer Meeting, N3RD**
- 16** **T.I.T.S. Meeting, Noon**
- 25-26 YO HF DX Contest
- 28** **Rexy Meeting B**

CHANGES

Telephone

N2CQ—856-848-4345

Deadline for July issue:

Sunday, June 24, 2007

President's Column

Just want to thank everyone for a great 2006/2007 contest season. Time to get all that antenna and outside work completed for the 2007/2008 contest season. Who knows, maybe better conditions. Very interesting experience operating WPX CW from 7 land in May at the bottom of Sun Spots. Very painful to hear east coast guys running Europe and not hearing even one of those Eu stations. Remember May was the month in which the club has its annual donation drive, it's still not too late to give. These donations keep the Repeater, Packet and Newsletter going.

Remember there is no meeting scheduled for June. **The next meeting will be Sunday, July 15th at N3RD's home in Phoenixville, Pa.** The August meeting will be held at Mark **K2AX's** home in Waterford Works, NJ. (date to be announced next month). I hope to see and meet lots of members at the summer meetings.

73's Art N3DXX

Summer Meetings



Sunday, July 15—Dave, N3RD, Sponsored by Team N3RS
Starts at 1 PM. Map will be in July newsletter

2007 FRC Open

FRC Golfers,

Please mark your calendars for this years **FRC Open**. The 2007 **FRC Open** will be held Tuesday June 26th. First tee time is Noon. There is a practice range and restaurant at the course. Dinner after the Open 5 minutes from the course. Anyone wishing to stop by **K300's** after dinner is welcome.

Southmoore Golf Course. www.southmooregolf.com



Please contact **K300** at k3oo@k3oo.com if you are planning on attending so I can secure you a tee time.

73,Rick K300

MEETINGS

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

Important Announcement on Pennsylvania PRB-1 Amateur Radio Antenna Legislation

To All (from EPA Section Manager Eric Olena, WB3FPL),

There is a fresh PRB-1 Proposal in the works for Pennsylvania. Thanks to the efforts of George Brechmann, N3HBT in Bucks County who is working with PA Senator Stewart Greenleaf. George will notify us when the proper legislative proposal numbers etc have been assigned to the proposed legislation. Once we receive this information everyone should at that time contact their state legislators urging their support for the proposal. PLEASE share this information with every Ham you know and be ready to contact your state legislators.

Late note: We are presently looking to have Hams who live in the Montgomery County (Lansdale) area contact their state legislators for support for the bill. According to the information we have received from Senator Greenleaf's Office the PRB-1 proposal will be moved into committee and the chairmen of those committees are from the two counties mentioned above.

Amending the act of July 31, 1968 (P.L.805, No.247), entitled, as amended, "An act to empower cities of the second class A, and third class, boroughs, incorporated towns, townships of the first and second classes including those within a county of the second class and counties of the second through eighth classes, individually or jointly, to plan their development and to govern the same by zoning, subdivision and land development ordinances, planned residential development and other ordinances, by official maps, by the reservation of certain land for future public purpose and by the acquisition of such land; to promote the conservation of energy through the use of planning practices and to promote the effective utilization of renewable energy sources; providing for the establishment of planning commissions, planning departments, planning committees and zoning hearing boards, authorizing them to charge fees, make inspections and hold public hearings; providing for mediation; providing for transferable development rights; providing for appropriations, appeals to courts and penalties for violations; and repealing acts and parts of acts," further providing for ordinance provisions.

The General Assembly of the Commonwealth of Pennsylvania hereby enacts as follows:

Section 1. Section 603 of the act of July 31, 1968 (P.L.805, No.247), known as the Pennsylvania Municipalities Planning Code, reenacted and amended December 21, 1988 (P.L.1329, No.170), is amended by adding a subsection to read:

Section 603. Ordinance Provisions.--* * *

(m) A municipality shall not adopt an ordinance, regulation or plan or take any other action that precludes amateur service communications or that in any other manner does not comply with the limited preemption of the Federal Communications Commission Amateur Radio Preemption order, published at 101 F.C.C. 2d 952 (1985), or any regulation related to amateur radio service adopted under 47 CFR Part 97. Any ordinance or regulation adopted by a municipality involving the placement, screening, or height of an amateur radio antenna based on health, safety, or aesthetic considerations must reasonably accommodate amateur communications, and represent the minimum practicable regulation to accomplish the municipality's legitimate purpose. The provisions of this subsection do not prohibit a municipality from taking action to protect or preserve a historic, a historical, or an architectural district that is established by the municipality or pursuant to state or federal law.

Section 2. This act shall take effect in 60 days.

2006 FRC Fund Drive



The 2006 **FRC** Annual Fund Drive is now officially underway. This issue should contain a stamped envelope for your contribution.

Here a few reminders when getting ready to make your annual contribution to help keep our club running...

- 1) **PLEASE** make **ALL** checks payable to **FRANKFORD RADIO CLUB, and NOT KQ2M.**
- 2) **PLEASE** write your return address and callsign on the envelope.
- 3) **PLEASE** write your callsign/callsigns on the check.
- 4) **PLEASE** seal the envelope.

Each year quite a few people forget to do at least one of the above and we lose some contribution checks. Also, some people make a much-needed contribution but then do not receive credit for making it. Clearly no one wants that, so **PLEASE** take a few extra seconds to make sure that you follow #1 - 4 before you mail the envelope.

If for some reason you don't get an envelope, or you misplace it, you can send your contribution to:

Robert L. Shohet, KQ2M
51 Scudder Road
Newtown, CT 06470

As you know, these are contributions and not "dues" so there is no fixed rate. To set the scale, however, it may help you to know that the cost of operating the club last year was about \$45.00 per member

List of FRC Contributors as of June 2, 2007

AA2WN	K300/K3000	W3GNQ/W3LRS	W3MM/W3RAT
AA3B	K3GYS	N2VW	W2UDT
AB2IO	K3II	N3KR	W2YC
K2DM	K3PH	N3ZA	W3AP
K2FL	K3WW	N8NA	W3BGN
K2JF	KD2RE	NW3Y	W3CC
K2NG	KQ2M	W2CG	W3FV
K2PS	N2BA	W2LE	W3KV
K2UT	N2CQ	W2OF	W3MF
K3ATO	N2LT	W2RD	W3SOH
K3FMQ			

Reprinted with permission from the May 2, 2007 Contest Rate Sheet

If your log checking report shows that other folks are consistently busting a specific letter of your call sign or an element of the exchange, that's something that can often be easily fixed. Perhaps you aren't speaking clearly at high speed. Is there a punchier phonetic or could you practice saying the phonetic more distinctly? On CW, you might be running two characters together. Examine your call sign to see if it could easily be received as different characters? In either case, have someone record your signal on the air, preferably during a contest, and see what it sounds like.

Frank W3LPL also contributed a Web site (<http://tinyurl.com/yv2c6o>) with an excellent discussion of vertical phasing techniques, including background on why some work better than others.

New Ham Radio Contesting Site Unveiled

Now available at <http://www.radio-sport.net/> - a new internet site devoted to news about ham radio contesting.

Featuring interviews with testers, the goal of radio-sport.net is to tell the story lines of our contests, with coverage modeled on what you might read in your newspaper sports section.

Radio-sport.net is also unveiling rankings of the top testers in the world, based on contest results over the past year. Our first #1 ranking goes to [FRCer] **John Crovelli, W2GD**.

Please stop by to take a look...and don't be surprised if you get an email from me with questions about what you're doing in an upcoming contest or how your last contest effort went. 73 Jamie Dupree NS3T <http://www.radio-sport.net/>



Antenna 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)

Reprinted with permission from the May 30, 2007 Contest Rate Sheet

Roy W7EL's EZNEC antenna modeling program (<http://www.eznec.com/>) was upgraded to version 5.0 at the Hamvention! The new version can model transformers, L networks, and transmission line loss, extending its scope to the entire antenna system. The new version also supports higher-precision calculation, import and of NEC-format wire files, circular polarization, more SWR type displays, more frequency sweep steps, and other improvements. There are five versions with various capabilities, including a free demo package, depending on your needs.

Falling asleep at the radio? Try operating standing up! If that's too difficult, try just changing the height of your operating chair - a good reason to have an adjustable chair in the shack. Make any change in your position or what you see - sometimes even moving the logging software windows around helps. Open a window or turn on a fan - or the reverse. Just keep changing things so that your mind is busy! And there's always a 15-minute catnap.

Reprinted with permission from the May 16, 2007 Contest Rate Sheet

Congratulations to the Yankee Clipper Contest Club as it celebrates it's 30th year of competing in the Unlimited club category from the Northeastern US. Now having close to a membership count of nearly 400, the club has steadily been growing since its inception in 1977. For the balance of 2007, YCCC members will be adding "/30" to their calls and a special certificate is available for contacting 10 of these members. See <http://www.yccc.org/> for more information on one of the USA's largest contest clubs. (Thanks, Mark K1RX/30)

Innovative hardware developer microHAM announces the release of MicroKEYER II, another state-of-the-art, all-in-one radio controller. Designed around the USB interface now standard on all PCs, the MicroKEYER II includes a high-performance sound card and supports many digital modes directly. Just the list of new and upgraded features is stunning. Read them for yourself at <http://www.microham.com/Downloads/MKII.pdf> as well as the preliminary information on the companion Station Master at <http://www.microham-usa.com/Downloads/SM.pdf> microHAM will have a booth at the Dayton Hamvention, so be sure to stop by and talk to them. (Thanks, Joe W4TV)

Pete N4ZR reports that he has just completed an update of the World HF Contest Station Database, so if you have submitted changes to your record they should now be reflected. Information on the hardware at more than 3300 stations is available at <http://www.pvrc.org/WCSD/WCSDsearch.htm> How does yours stack up?

Although counterintuitive, it is true that a tree gets taller by growing at its top, not by extending its trunk along its length. I.e. - branches do not move farther apart as the tree grows. In addition, a tree grows thicker as it grows taller. Eventually anything attached to the trunk will eventually wind up inside the trunk. Many species of conifers will "bury" nails, fencing, forest service telephone wires, etc. within just a few years. Food for thought as we eye those leafy antenna supports in our back yards. (Thanks, Don N8DE and Brent K7MEI)

To repair a damaged rotator control cable, one of Steve K7LXC's customers provided some AVAYA 709-SC telephone pair splicing connectors. They worked fabulously with the multi-conductor cable. "Just push the non-stripped wires into the end of the connector and squeeze it together with a pair of pliers. The connectors are clear so you can see the wire pairs are connected correctly and that they're pushed in far enough - you just about can't screw them up. They even have some silicone inside that squishes out when you seat them, providing a layer of weather proofing." The connectors work for 22 through 26 gauge wire.

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

Randy K5ZD is looking for logs for input to the Super Check Partial database files (<http://www.k5zd.com/scp>). Please send the same Cabrillo format log that was submitted to the contest sponsor from any of the following contests:

CQ WW DX - CW, Phone, RTTY

CQ WPX - CW, Phone, RTTY

CQ 160M - CW, Phone

ARRL DX - CW, Phone

ARRL Sweepstakes - CW, Phone

ARRL RTTY Roundup

ARRL 10M

ARRL 160M

IARU Radiosport

Russian DX Contest

Worked All Europe - CW, Phone, RTTY

Simply add your log as an attachment to the email and send to k5zd@contesting.com.

Upcoming Hamfests (Thanks to Glenn, K3SWZ)

June 3	Manassas, VA
June 9	Bloomsburg, PA
June 17	Frederick, MD
July 1	Wilkes-Barre, PA
July 4	Harrisburg, PA
July 15	Kimberton, PA
July 22	Howard County, MD
August 5	Berryville, VA
August 12	Matamoras, PA
August 19	Westminster, MD
August 19	Pleasant Hill, PA
September 8	Stroudsburg, PA
September 16	Gloucester County, NJ
Contact: aa2wn@arrl.net	
September 30	Wrightstown, PA
October 6	Brownstown, PA
October 7	Howard County, MD

<http://www.lz1jz.com>



Riley Reiterates Recommendation to "Lighten up" on Ham Bands

FCC Special Counsel in the Spectrum Enforcement Division Riley Hollingsworth's main message at the Dayton Hamvention® <<<http://www.hamvention.org/>>> 2007 FCC Forum may not have been a new one. But it's certainly one he believes bears repeating -- at least until it starts cutting through the QRM and QRN that pervade more communication channels than our Amateur Radio bands.

"Well, you could have gone to the flea market, but you came to church instead," Hollingsworth quipped to his Dayton forum audience. "I've got you now."

Hollingsworth repeated what for many Riley Watchers has become a familiar refrain: That the Amateur Radio community needs to "lighten up" on the air. Acknowledging that he was repeating himself, Hollingsworth urged his audience to take his message more to heart. "All of you can learn from each other," he said, "and you need to work together more and show a little more respect for your diverse interests and for the Amateur Service as a whole. It isn't about you. It isn't about enforcement. It's about Amateur Radio."

As radio amateurs take to the airwaves, he continued, they need to decide what's most important -- the best interests of ham radio or their ego, pride or perceived "rights."

"I realize I may be preaching to the choir here, but on the air you need to be more cooperative and less argumentative -- and I need you to take this message with you when you go home," he continued.

As a "homework assignment," Hollingsworth encouraged his listeners to read the "It Seems to Us . . ." editorial, "Most Effective Use" <<<http://www.arrl.org/news/features/2007/05/01/1/>>>, by ARRL Chief Executive Officer David Sumner, K1ZZ, in May 2007 QST. In his commentary, Sumner stressed that interference occurring as a side effect of legitimate Amateur Radio activities in crowded bands "is simply a fact of life" and that it's "unfair to your fellow amateurs to assume that every instance of interference you may encounter is a hostile act."

Hollingsworth offered good news and bad news. "The good news: Nothing is wrong with Amateur Radio," he allowed. "It is a good service that is showing its value to the public on a daily basis." The bad news, he asserted, making a comparison to "road rage," is "that there is an element of Amateur Radio that too often reflects present society generally."

Hollingsworth urged all radio amateurs to cooperate more and depend less on the FCC to solve their operating issues. "We live in a rude, discourteous, profane, hotheaded society that loves its rights, prefers not to hear about its responsibilities, and that spills over into the ham bands," he said.

Hollingsworth's bottom line: Be flexible in your frequency selection and make regular use of the "big knob" on the front of your transceiver to shift to any of the "thousands of frequencies and hundreds usable at any given time of day or year" as necessary to avoid problems. "The world is ugly enough -- don't add to it," Hollingsworth advised.

"We can enforce our rules, but we can't enforce kindness and courtesy or common sense," Hollingsworth concluded. "And a very wise person, who happens to be standing to my left [FCC Wireless Telecommunications Bureau staffer Bill Cross, W3TN -- Ed] once told me: 'You can't regulate stupid.' If we could, we'd be working for the United Nations instead of the FCC."

In his comments, Cross singled out the controversy that erupted recently over fears that automatically controlled digital stations would overwhelm the amateur bands, eclipsing most other modes. Cross cited §97.7 of the rules, which requires each amateur station to have a control operator and, in essence, to employ a "listen-before-transmit" protocol."

When a station is under automatic control, regardless of the transmission mode, Cross explained, the control operator need not be at the control point, but must employ station control devices and procedures while transmitting that ensure compliance with the FCC rules and does not cause harmful interference to ongoing communications of other stations.

The operational rule, Cross said, is: "Your call sign, your responsibility."

Array of New Gear Debuts at Dayton 2007

It's always a treat to get your first look at a new HF transceiver at Dayton. This year, there were no fewer than six to drool over. Here, in alphabetical order, is a rundown:

Elecraft <<<http://www.elecraft.com/>>> announced its new K3 HF and 6 meter transceiver. It includes many upgrade options, so many, in fact, that you can configure anything from a kit-built 10 W portable QRP radio to a full-featured, contest-ready 100 W rig with *two* high-performance receivers. It is scheduled to ship starting in July.

FlexRadio Systems <<<http://www.flex-radio.com/>>>, a pioneer in high-performance software defined radios (SDRs), introduced its Flex-5000 HF plus 6-meter transceiver series that promises higher performance and more features than its earlier model. Included are the Flex-5000C, a fully integrated system in a single box, and the Flex-5000D, which includes a second receiver.

Hilberling, the first Amateur Radio transceiver maker from across the Atlantic for some years, announced its PT-8000 transceiver. It's offered as a full-featured HF and VHF transceiver available in 10, 100 or 600 W versions. The North America distributor is Array Solutions <<<http://www.arrayolutions.com/>>>.

ICOM <<<http://www.icomamerica.com/>>> unveiled its IC-7700 HF + 6 meter transceiver. It appears to be a single-receiver version of its top-tier IC-7800, sharing the 200 W transmitter, high performance receiver and 7-inch display of its sibling. Contesters are the market target, but the IC-7700 may be of interest to anyone who covets the features of the IC-7800 but doesn't need two receivers or the higher price tag.

Ten-Tec <<<http://www.tentec.com/>>> has its new Omni-VII HF + 6 meter transceiver on display. The unit's "distributed roofing filter architecture" promises ham-band-only receive performance with a general coverage receiver. Stay tuned for the "Product Review" in July QST.

Finally, Yaesu <<<http://www.yaesu.com/>>> showed its new FT-450 HF + 6 meter offering. The FT-450 bears some similarities to the Yaesu FT-2000, but with fewer features and a correspondingly lower price.

What else?

Array Solutions is distributing the SPE Expert 1K-FA solid-state linear amplifier. It is a compact light weight (44 pounds) fully automated, full break-in capable amplifier that puts out 1000 W PEP on 160 through 10 meters (700 W PEP on 6 meters). It has an internal 120 or 240 V ac power supply and antenna tuner.

Dishtronix <<<http://www.dishtronix.com/>>> showed off its 100% duty cycle, 1500 W output (on all modes) solid-state linear. This is a "serious" amplifier at 65 pounds with the choice of a separate 120 pound linear power supply or a 54 pound switcher.

Tokyo Hy-Power <<<http://www.thp.co.jp/>>> enjoyed a great debut at Dayton this year, showing three HF amplifiers newly introduced to the US market. On display were the HL-1.2KFX 750 W output, HL-1.5KFX 1 kW output and HL-2.5KFX legal limit amplifiers as well as the HL-500V 2 meter linear. All are solid state. THP also offers a new legal-limit automatic antenna tuner.

Kenwood <<<http://www.kenwood.com/>>> announced a new V/UHF mobile transceiver, the TM-71A. Of particular note is free software that allows downloading repeater data from ARRL's Travel Plus <<<http://www.arrl.org/catalog/?item=9930>>> directly into radio memories. It also can function as a crossband repeater.

Yaesu introduced a new V/UHF transceiver especially for hams on the go! The FTM-10 is designed to mount on the handlebars of your bike or motorcycle so that you don't even need a mic! Just talk into the front panel, and you're on the air!

Radio accessories are always popular at Dayton and MFJ can always be counted on to have new products. Topping the list this year is the MFJ-998 1500 W Intellituner. This legal-limit auto tuner is designed to handle loads from 12 to 1600 ohms from 160 to 10 meters and includes two outputs and sophisticated memory, protection and control features.

West Mountain Radio <<<http://www.westmountainradio.com/>>>, the RigBlaster and RigRunner folk, have branched out into the audio side of your radios. They introduced a DSP-equipped speaker designed for the HF operator who would like more signal and less noise.

Palstar <<<http://www.palstar.com/>>> has a new AT1KP tuner that covers 160 through 6 meters. By switching in the 160 meter inductance only when needed, the AT1KP reduces the minimum capacitance of the tuner so it can cover 6 meters.

The Swiss Antenna Matching System from Heinz-Bolli is a legal-limit remote-controlled tuner designed for outdoor mounting. It can be manually tuned by remote control or auto tuning can be used to select the best tuner configuration or adjust the parameters. Array Solutions is the North American distributor. -- Joel Hallas, W1ZR

Contest Club "Does the Right Thing"

The Potomac Valley Radio Club (PVRC) has agreed to forfeit its victory in the 2006 ARRL November Sweepstakes because some of those contributing scores to PVRC turned out to be outside the club's territory.

"This is a decision that I take very seriously, as so many of you poured your heart and soul into this great competitive event," PVRC President Jim Nitzberg, WX3B, said in a letter to members. "We decided this was the best course of action consistent with our high ethical standards as one of the finest unlimited contesting clubs."

Nitzberg says the PVRC completed last fall's November Sweepstakes with the largest turnout of operators in its history. But upon closer examination, he said, measurable activity occurred from areas "clearly beyond" the 350-mile diameter ARRL competition boundary (175-mile radius). Once the club used more precise measurement techniques to determine its boundaries, he explained, the PVRC ended up losing by a wide margin.

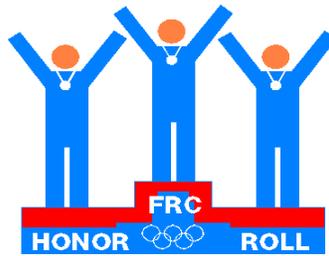
Nitzberg notes that the club was not officially challenged nor requested to forfeit but made the decision on its own after carefully examining participation. He also accepted responsibility for the error as the club's president and extended congratulations to the Northern California Contest Club for winning the November SS gavel.

The PVRC this year celebrates its 60th anniversary this year, and members will take part in an annual on-the-air reunion over the June 2-3 weekend. During the event PVRC ops are encouraged to append /60 to their call signs.

Aiiieee! My BS7H QSO is not in the log!

The fellow who's handling QSL cards for the recent BS7H Scarborough Reef DXpedition -- Steve Wheatley, KU9C -- says he's received "quite a number" of questions concerning contacts not in the online log <<<http://www.scarboroughreef.com/srlog.html>>>, a lack of QSO details, the dog ate my log and similar. "Rather than ask via e-mail," he suggests, "I'd ask you to kindly put the inquiry in a note with your QSL to me. I'll research the log as I work your QSL request, and respond accordingly." Wheatley says that if you're not showing up in the BS7H online log, don't despair. "Put down every QSO you believe you had, and I'll do the rest." KU9C reminds operators that researching contacts takes him away from processing other cards. "If it's a busted call, I'll use well-established judgment in issuing the card," he says, "and may ask you to help confirm that the person's whose call appears did not make a QSO." But, he adds, if an operator can't supply any QSO details beyond what's in the online log, it will be impossible for him to issue a card. He also says not to fret if you sent return postage under the old rates; he'll make up the difference.

Scarborough Reef has been the top most-wanted DXCC entity -- The Daily DX <<<http://www.dailydx.com/>>>



JUNE **conducted by N2SS** **2007**

WARC BANDS

<u>30 Meters</u>	<u>17 Meters</u>	<u>12 Meters</u>
K2FL.. 335	K2FL...339	N2TK .. 329
N2TK333	N2TK 338	K2FL.....327
N2LT324	N2LT 336	N2LT.....321
W3BGN320	W3BGN ... 332	W3BGN ...315
W2YC308	W3CF 332	N2SS.....303
N2SS295	N2SS 324	W3CF303
W8FJ293	W2UP 318	W2YC278
K2PS289	W2YC 312	K2PS.....269
W2UP286	K2PS 308	W2UP267
N3RD271	W8FJ 296	W8FJ.....233
K3II234	N1RK 257	N1RK.....218
W2LE221	K3II 256	K3II.....203
W2IRT212	W2LE 244	W2LE198
W2RQ182	W2IRT..... 241	N3KN191
AA2WN...174	W2YR 202	W2YR.....187
K3CT134	K2AX 192	NA2U156
AB2E132	W2RQ 192	W2IRT122
W2YR131	N3KN 171	W2RQ119
N2VW126	NA2U 167	W2IRT105
N3KN126	K3ND 127	AB2E92
N1RK116	K3CT 126	K3CT83
NA2U110	AA2WN ... 122	K2AX69
K3ND91	AB2E 110	N2VW33
W3CF61	N2VW 85	K3GYS30
K3GYS17	K3GYS 85	AA2WN.....20
K2AX15		

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

W3BGN297	AB2E 100
AA1K293	N2VW 95
WT3Q264	W2CG 95
N2LT257	W2IRT 93
N2TK254	NA2U 83
NO2R241	W2YR 81
K3SX241	N2SS 79
W8FJ225	K2AX 77
W2UP211	W3CF 77
K3JJG215	K3NL 70
W2YC201	W2LE 64
W2RQ166	K3CT 63
K3II160	N1RK 51
N3RS156	AA2WN 50
K2FL143	N3KN 34
K3ND137	K3GYS 12
K2PS109	

W3BGN continues as the undisputed Top of Top Band.

Digital

W2UP341	W2YR 132
N2LT337	KQ3F 132
K2PS295	W2CG 66
W2YC276	N2SS 53
AA2WN187	N1RK 39
N3KN181	K3GYS 15
W2IRT159	W8FJ 12
W2LE141	

MOBILE DX

W2YC276	K3GYS 143
AA1K274	AA2WN 131
N2SS234	W2YR 28

1.5K Club

K2FL..... 1718	K3II 1449
W3BGN 1706	W2CG 1408
N2TK 1697	W3CF 1403
N2LT..... 1695	AA2WN..... 1379
W2UP 1680	NA2U 1365
W2RQ..... 1645	K2AX 1334
N3RS..... 1626	N1RK..... 1300
W8FJ 1607	N2VW 1299
W2YC 1584	W2LE 1193
N3RD 1560	AB2E 1185
NO2R..... 1552	K3CT 1180
K2PS 1538	W2YR..... 1153
N2SS 1536	N3KN 1120
K3ND..... 1508	W2IRT 1087

Islands On The Air

K2FL..... 1012	N2VW267
N2SS 842	W3CF253
W2YC 656	W2YR244
W8FJ 623	W2IRT232
N1RK 549	K3GYS232
WA3RHW ... 292	AB2E205

6 METER DXCC

N2LT..... 107	N3KN52
K2PS 104	W2YR.....44
AA1K 99	W2YC.....29
K3OO 80	K2AX18
K3SX 75	AA2WN15
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, 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

144.950 K3ZV
145.530 AA1K
145.530 K3WW
145.570 WT3Q
145.670 W3PP

Telnet DX Cluster

k2ut.gofrc.org
k3ww.gofrc.org 7300
kf3b-2.gofrc.org 7300