



# THE FRANKFORD RADIO CLUB NEWSLETTER

*PROFICIENCY THROUGH COMPETITION*

## CALENDAR

### March 2006:

- 4-5** ARRL DX Test, SSB
- 14** FRC Main Meeting, Phila
- 14** Remy Meeting B
- 16** T.I.T.S. Meeting, Noon
- 18-19 Russian DX Test
- 25-26 CQ WPX Contest, SSB
- 28** Remy Meeting B

### April 2006:

- 1-2 SP DX Contest
- 8-9 Japan Intl. DX Test, CW
- 11** FRC Main Meeting, Phila
- 11** Remy Meeting B
- 15-16 YU DX Test, CW
- 20** T.I.T.S. Meeting, Noon
- 22-23 Florida QSO Party
- 25** Remy Meeting B
- 29-30 Helvetia Contest

### May 2006:

- 6-7 ARI International DX Test
- 9** FRC Main Meeting, Phila
- 9** Remy Meeting B
- 13-14 CQ-M International DX Test
- 13-14 Mid-Atlantic QSO Party
- 18** T.I.T.S. Meeting, Noon
- 20-21 Baltic Contest
- 25-26 CQ WPX Contest, CW
- 23** Remy Meeting B

## CHANGES

### Address

**W3PP**—Dallas Carter  
28410 Carroll Taylor Dr.  
Laurel, DE 19956

### Deadline for April issue:

Sunday, March 26, 2006

## President's Column

By the time you get this, the ARRL DX contest for 2006 will be history. The CW contest was a challenge due to the bottom of the sun spot cycle. Conditions on the higher bands continue to decline. The openings on 15 meters to Europe were short. 10 meters was only useable to the south. This meant that 20 meters was the band to be on and this resulted in extremely crowded conditions. Frequency fights were common. Conditions like these show the advantages to sharp filters and operator skill.

The phone portion of the contest will be even worse. I know that for most of us, phone is not the mode of choice. But, I hope that our turnout for the phone portion was good and that we can come out on to again this year.

I received the plaque for being the winning club in the 2004 CQWW contest. This plaque will reside in K3NM's shack since he was president in 2004. I look forward to presenting this to Joe at a meeting soon.

**73 – John – K3ZV**

## ARRL SSB DX Test Info

### FRC DXPeditions

**P40W** by **W2GD**  
**ZP0R** by **N3BNA**  
**WP2Z** by **N2TK**  
**PJ4G** by **K2TW**  
**6V6U** by **K3IPK**

### Score Reporting

Report scores or send copy of log to **K3WW** (k3ww@fast.net) for archives. Anyone who needs help uploading your log can simply ask and Chas can upload the log for you..

**MEETINGS**

**Main Meeting in King of Prussia**

The main monthly meeting of the **Frankford Radio Club** will be held Philadelphia on Tuesday, March 14 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 16 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.



KLM HF Antenna KT34XA 6 Element 10/15/20 meter tribander. The boom is 34 ft. long and 3" diameter. No traps, with balun, is sitting disassembled in storage. Very good condition. Pick up only in Warrington, PA, Bucks County. Asking \$350 or best offer.

Brand new in box, never used, APC Smart-UPS 3000VA. Load capacity is 3000VA. Input voltage is 110V AC; output voltage is 120V AC. 8 receptacles. Rack mountable, complete with battery. List price is \$1,425, asking \$550.

For more information, contact WA3YOB Silvio Bianco at 215-3434-7486 or email [wa3yob@comcast.net](mailto:wa3yob@comcast.net).

**From the FRC Reflector**

(courtesy Keith, **N5RA**)

I recently bought a batch of IRCs that were offered on the FRC reflector, and now have 3 responses that my IRCs are no good. Latest is from HB9BOU, mgr for 4U60UN/4U1UN. He says that the Swiss post office will only accept the new larger blue IRCs. One south Pacific DX station was pretty nasty about me offloading useless IRCs on him.

I have received a few responses from my mailings, but then I also included green stamps in cards I really needed, so not sure if any have come back that only had the IRCs. How many just threw my card away? Guess I'll never know.

Beware what type of IRCs you get/use...

## CONTESTING — TIPS, TECHNIQUES, RESOURCES

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### **Reprinted with permission from the February 8, 2006 Contest Rate Sheet**

The ARRL Contest Advisory Committee (CAC) has released a white paper, "HF Contesting--Good Practices, Interpretations and Suggestions."

<http://www.arrl.org/contests/hf-faq.html>

The document, which discusses common situations encountered during HF contesting, results from CAC work that arose over the course of an informal committee meeting at Dayton Hamvention. While not a comprehensive set of "Frequently Asked Questions" (FAQ), the white paper does address many issues that periodically arise related to HF contesting and even some that may apply to VHF/UHF contesting. The white paper operates from an HF perspective, however, recognizing that there are many differences between HF and VHF/UHF contest practices. ARRL Contest Branch Manager Dan Henderson, N1ND, stresses that the white paper's interpretations do not supersede the rules for any contest but are intended to assist contesters by providing some interpretations and operating suggestions based on CAC members' accumulated experience

If you have been using K1TTT's operator scheduling Excel spreadsheet, there is a new revision - <http://www.k1ttt.net/software.html#opsked> <http://www.k1ttt.net/software.html>. Additional control over the operator selection algorithm spreads the load better for multi-op teams. Heck, I just shove whoever's awake into a chair and give 'em some M&Ms. (Thanks, Dave K1TTT)

Not everyone is born with a soldering iron in hand. If you are just starting on your homebrew career, you should make a point of downloading the various issues of "So You Want To Be a Builder?" by Doug KI6DS. Issue number one is available at <http://www.norcalqrp.org/sywtbab.htm> (Thanks, Doug KI6DS)

For the straight story on anchoring in concrete, check out the Hilti company's Web site at <http://www.us.hilti.com/>. Click on "Tech Center", then select one of the categories under "Technical Documents." There's a lot of information available after you register with the site. (Thanks, Hank KR7X)

Mike WB8GXB found a simple system from Caswell Plating (<http://www.caswellplating.com/kits/pluginplate.htm>) to plate silver and brass - a product called "Plug-N-Plate". This process consists of a wall transformer (1.7-volts for silver), a plating wand, gauze to hold the plating solution, and 4 ounces of plating solution. The process is: (1) Wrap the gauze around the wand. (2) Plug in the transformer and connect one output to the part being plated (alligator clip) and the other output (banana jack) to the wand. (3) Soak the gauze in plating solution. (4) brush the gauze wand on the part being plated. A plated finish will result. Coat the entire surface refreshing the gauze with solution as needed. Buff finish as desired. That is all there is to it. The part must be cleaned with a copper/brass cleaner for best results. (Reprinted from the January 2006 "Cheesbits" newsletter of the Mt Airy VHF Radio Club)

### **Reprinted with permission from the February 22, 2006 Contest Rate Sheet**

There have been periodic reports of incompatibility between some paddles and WinKey due to the use of "new" contact materials designed to reduce oxidation issues. K1EL and microHAM have cooperated to produce a "paddle processor/debouncer." The debouncer is now available with two cable versions - terminated in either a 1/4" or 1/8" stereo phone plug. For more information, browse on over to <http://www.microHAM-USA.com> <http://www.microham-usa.com/> (Thanks, Joe W4TV)

## CONTESTING — TIPS, TECHNIQUES, RESOURCES

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### Reprinted with permission from the February 22, 2006 Contest Rate Sheet

If you are an ARRL member, the ARRL VEC will renew your license for you at no charge. The ARRL will send you a reminder as it gets near your renewal time. This can be done on-line at <http://tinyurl.com/efv6u> (Thanks, Dick N6AA)

Here are a pair of new electronics and radio Web sites that you might want to add to your reading list: Radio-Electronics (<http://www.radio-electronics.com/>) covers a lot of topics related to radio. Electronics and Radio Today (<http://www.electronics-radio.com/>) is a new e-zine and still under development.

In the days of paper logs, we all diligently removed or identified any duplicate contacts, lest we incur the dreaded penalty for claiming duplicate QSOs! With the Cabrillo file format, this is no longer required. You shouldn't have to worry about duplicate QSOs because the log processing software will remove them before calculating your score. That also means you can simply work dupes and not have to send "QSO B4". After all, if someone is working you a second time, perhaps your original QSO is not in their log, either! It's easier for everyone to just work all callers (except the obviously clueless multiple dupe-er). If you are unsure of how the contest sponsor will handle duplicate QSOs in a Cabrillo-formatted log, ask them and follow their directions.

An oldie-but-goodie, back in 1995 Frank W3LPL generously compiled and published a table of coax cable loss vs. frequency performance. You can find it here: <http://www.k1ttt.net/technote/coaxloss.html#tables> <http://www.k1ttt.net/technote/coaxloss.html>. The information is presented in several ways and the frequencies are those of the ham bands. (Thanks, Gene AD3F)

Pete N4ZR recalls another good, old idea for terminating 3/4" hardline with a UHF barrel connector, originally contributed by the late Bill Fisher W4AN. You'll need a 1/2" female water pipe to 1/2" copper tubing adapter from the plumbing department and an Amphenol PL-258 barrel connector (the kind that has a snap-ring retainer). Remove the snap-ring by hacksawing down to the snap-ring groove and remove the insulator and contacts. Silver-solder the barrel into the copper tubing end of the adapter, with the cut end inside. Trim the end of the hardline so that the slightly-spread center contact of the PL-258 fits over the hardline center conductor with the proper length to seat in the PL-258. (Some trial and error required.) Solder the center conductor and contact. Slide the PL-258 insulator onto the contact and thread the adapter onto the hardline sheath using Noalox for lubrication, until the contact and insulator are seated in the PL-258. Dave K1TTT notes that this technique also works with other hardline sizes and that both adapters and reducers can be used.

While we're on the subject of coax wrangling, here is a great tutorial on PL-259 crimp-on connectors. Plenty of photos and detailed instructions make this particularly good: [http://www.bcdxc.org/pl259\\_crimp\\_on\\_connectors.htm](http://www.bcdxc.org/pl259_crimp_on_connectors.htm) (Thanks, Paul VE7BZ)

Before you start digging that tower base...from a Web link provided by Richard NU6T: "Under federal legislation enacted in 2003 and federal regulations adopted in 2005, persons planning to dig may dial 811 to reach their states' Dig Safe or Underground Alert hotlines. The 811 system is to be fully operational on a national basis by spring 2007." Try this Tiny URL: <http://tinyurl.com/2mmoo> for details, state by state. (Thanks, Bob K0RC)

### Atlantic Division News

The Atlantic Division Awards deadline is coming close. The deadline for receipt of the awards nominations is Saturday, March 18th. For more information check out <http://www.atldiv.org/AtlAwards.htm>

The Foundation for Amateur Radio has a number of scholarships available. Information on the scholarships can be obtained by going to: <http://www.atldiv.org/scholarships.htm>

Upcoming hamfests within the Atlantic Division are:

02/25/06 ARA of the Southern Tier, Horseheads, NY

02/26/06 WASH Fest, Castle Shannon (Pittsburgh) PA

03/05/06 Lancaster ARC, Williamsville, NY

03/18/06 Butler County ARA TechFest, Butler Twp Park, PA

03/25/06 Baltimore ARC, Timonium, MD

04/01/06 Drumlins ARC, Marbletown, NY

04/02/06 Delaware Valley Radio Assn, Hamilton Twp, NJ

04/22/06 PRO's Club, Sardinia, NY

04/23/06 York Hamfest Foundation, York, PA

04/30/06 Two Rivers Hamfest, Boston, PA



#### 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

(908) 996 3043

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



### **2006 Dayton Hamvention Theme**

Dayton Hamvention® announces theme for 2006 show: "Ham Radio is Public Service" is the theme for Dayton Hamvention 2006--reflecting the renewed awareness by the public of the service Amateur Radio operators provided after the Gulf Coast hurricanes and other disasters. In announcing the theme, Hamvention 2006 General Chairman Jim Nies, WX8F, said that it serves to remind the public and the ham radio community that one of the reasons ham radio exists is to provide communication in emergencies when all else fails.

Several forum sessions are expected to deal with emergency communication-related topics, including how Amateur Radio performed after the hurricanes wiped out communications in a wide segment of the south. For more information, visit the Dayton Hamvention Web site <<<http://www.hamvention.org/>>>. More than 25,000 visitors are expected to attend the three-day event Friday through Sunday, May 19-21. The ARRL has announced that it will present ARRL EXPO 2006 during Hamvention <<<http://www.arrl.org/announce/nc/2006/>>>.

### **ARRL Advisory Committees to consider contesting, DXCC changes**

The ARRL Programs and Services Committee (PSC) has asked its Contest Advisory Committee (CAC) to consider whether the current method of scoring ARRL Affiliated Club competition is adequate or whether it should be revised to better "reward a combination of activity, effort and achievement." The PSC also wants the CAC to determine whether a return to the policy of assessing a three QSO per error penalty for electronic logs--as is currently assessed for hard-copy logs--is in the best interest of the ARRL contesting program. Both CAC assignments followed presentations to the PSC on both topics by ARRL Southwestern Division Director Dick Norton, N6AA. The PSC also has asked the DX Advisory Committee (DXAC) to study the impact of amending the DXCC "political entities" rule. The change under consideration would revise Section II, "DXCC List Criteria," under "1. Political Entities," to add a Paragraph c) reading, "The Entity contains a permanent population, is administered by a local government and is located at least 800 km from its parent." The CAC will seek public input in completing work on its tasks, and a progress report is due June 19. The PSC has asked the DXAC to report back by March 15.

### **ARRL teams named for WRTC 2006**

Members have been named to the two-person teams that will represent ARRL in World Radiosport Team Championship 2006 (WRTC-2006) this summer in Brazil. To honor the organizing committees of previous WRTCs, the WRTC-2006 selection criteria call on the organizing committees of the five WRTC events to select five team leaders, with teams chosen by the International Amateur Radio Union (IARU) member-societies in the host countries. Since two WRTCs have been held in the US, the ARRL was asked to select two teams. The League, in turn, asked the organizers of the first and second WRTCs to choose team captains and teammates. The Western Washington DX Club, sponsor of the first WRTC, held in 1990 in Seattle, has announced the selection of ARRL Contributing Editor Ward Silver, N0AX, as team captain. Silver has picked Chris Hurlbut, KL9A, as his teammate. The host of WRTC-96 in the San Francisco Bay area, the Northern California Contest Club, has selected ARRL Senior Assistant Technical Editor Dean Straw, N6BV, as team captain. His teammate will be Mark Obermann, AG9A. "Congratulations to these fine contesters," said ARRL CEO David Sumner, K1ZZ. "We look forward to a strong competition!" Held in conjunction with the International Amateur Radio Union (IARU) HF World Championship, WRTC-2006 takes place July 7-10 in and around Florianopolis, Brazil. There's more information on the WRTC-2006 Web site <<<http://www.wrtc2006.com/html/web/>>>.

### **Regulation by Bandwidth Petition "A Reasonable Middle Ground," League says**

The ARRL says its Petition for Rule Making (RM-11306) to regulate the amateur bands by necessary bandwidth rather than by mode represents "a reasonable middle ground in a difficult regulatory area." In reply comments filed with the FCC February 21, the League said it was gratified to see more than 900 comments responded to the admittedly "controversial" petition and noted that many "show the investment of a good deal of thought about the proposal." ARRL said it would have been concerned if the amateur community had not responded with a loud voice on all facets of the League's regulation-by-bandwidth proposal.

"ARRL continues to believe that its petition is a measured response to progress in digital telecommunications technology and successfully balances the interests of all, regardless of which of the polarized opinions in this proceeding, if any, constitutes a 'majority' view," the League's reply comments said. "To the extent that the success of this philosophy necessitates the participation and cooperation of all amateurs in the development of, and increased reliance on, modernized voluntary band plans, ARRL is optimistic that such participation and cooperation will be available" as it has in past "transitional phases" in Amateur Radio's history.

The ARRL is asking the FCC to replace the table at §97.305(c) with a new one that segments bands by necessary bandwidths ranging from 200 Hz to 100 kHz. Unaffected by the ARRL's recommendations, if they're adopted, would be 160 and 60 meters. Other bands below 29 MHz would be segmented into subbands allowing maximum emission bandwidths of 200 Hz, 500 Hz or 3.5 kHz, with an exception for AM phone.

The ARRL says the changes it's proposing constitute a balance "between the need to encourage wider bandwidth, faster digital communications and the need to reasonably accommodate all users in crowded bands."

The League's reply comments countered criticism that its petition represents "overregulation wrapped in a different cloak," that increased reliance--and confidence--in the ability of voluntary band plans to substitute for subband regulation by emission mode is misplaced, or that the ARRL's proposal caters to a small minority of digital enthusiasts and experimenters. Many of those who commented expressed a desire to leave things as they are, some because they feel the advent of digital technology may threaten their favorite mode.

"They are comfortable with the status quo, because the current regulations are not encouraging toward digital modes and, therefore, the current regulatory scheme, they feel, 'protects' them," the League said. "The comfort level with the status quo is high for these licensees, and they have not hesitated to tell the Commission so."

The League emphasized, "All should be accommodated by the regulatory structure of amateur subbands, and technology changes demand regulatory changes in this instance." Its plan, the League said, "attempts to segment emission modes of similar bandwidths in a manner that accommodates the varied needs and interests of all, while insuring compatibility by grouping like-bandwidth emissions together."

Citing repeated efforts to gather input from the Amateur Radio community at large and from its members since its regulation-by-bandwidth concept was first aired in 2002, the League called the petition "the most thoroughly vetted regulatory proposal" it's ever developed.

"The ARRL petition does not favor one mode at the expense of another," the League reiterated in concluding its reply comments. "It merely allows expansion of the repertoire of options that amateurs may pursue compatibly."



**Notes From Your Editor**

**A**s I mentioned last month, it was time for the annual FRC Honor Roll clean-up. So, this month's listing reflects the removal of any call signs where I have had no input since prior to January of 2005. If I made an error or you want to be listed, please drop me an email with your current standings.

**DXCC ENTITY REDUCTION?**

You have to wonder what they are thinking at HQ?!?!

The ARRL Programs and Services Committee has asked the DX Advisory Committee (DXAC) to study the impact of amending the DXCC "political entities" rule. The change under consideration would revise Section II, "DXCC List Criteria," under "1. Political Entities," to add a Paragraph c) reading, "The Entity contains a permanent population, is administered by a local government and is located at least 800 km from its parent." The PSC has asked the DXAC to report back by March 15.

I haven't made an exhaustive study but I would imagine we would see upwards of 50 countries go off the DXCC list if this rule change were to come about. If you are opposed to this action, drop an email to your Director and your DXAC representative and let them know.

Someone emailed me about this thinking I was still on the DXAC. After defeating me when I opposed him in his re-election bid, one of the first actions our former Atlantic Division Director took was to remove me from the DXAC. So, I am not your man.

**CURRENT OFFICIAL ARRL DXCC STATISTICS**

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

**3D2/R – ROTUMA**

Look for W7YAQ and N7OU signing as **3D2RX** and **3D2RO** from IOTA OC-060 from March 3<sup>rd</sup> to 10<sup>th</sup>. Operations will be 80 thru 10 Meters RTTY and SSB but mainly CW. Requests for a card via the bureau can be made directly via email to [W7YAQ@arrl.net](mailto:W7YAQ@arrl.net) or [N7OU@arrl.net](mailto:N7OU@arrl.net). Otherwise, QSL to their respective home QTH's.

**4J – AZERBAIJAN**

RA3AUM and UA3FDX will be active as **4JØAUM** and **4JØDX**, respectively March 17<sup>th</sup>-27<sup>th</sup>. In addition to 80 thru 10 they plan to try 160 Meters, as well. UA3FDX will handle QSLs for both.

**TP1CE – COUNCIL OF EUROPE**

March 11<sup>th</sup> and 12<sup>th</sup> will find a 4 YL operation from C of E HQ in Strasbourg. The ops will be Laura/3A2MD, Evelyne/F5RPB, Annemarie/DJØFR and Olga/DJØMCL. TP1CE does not count for anything special despite numerous early attempts at separate DXCC status. So, it is just France but the QSL is nice and the ladies look forward to your support with a QSO. QSL via F5LGF.

**TY – BENIN**

PA3EWP as **TY5WP**, GM4FDM as **TY4TW**, K2LEO as **TY2LEO** and IK1PMR as **TY1MR** will have 3 station DXpedition on the air and will operate on all bands on CW, SSB and

RTTY. The focus will be mainly on the lower bands – 160, 80 and 40 Meters. QSL TY1MR via IK1PMR. QSL TY2LEO via IK1PMR. QSL TY4TW via GM4FDM. QSL TY5WP via PA7FM.

**YJ – VANUATU**

DJ7EO, DL3DXX, DL5LYM, DL9NDS are currently signing as **YJØADX**. They plan to be on the air until March 11<sup>th</sup>. Emphasis is on the low bands 160, 80 and 40 Meters plus WARC and operation is RTTY, SSB but mainly CW. Online Log Search and latest news and photos on the DXpedition can be found at: [www.df3cb.com/yj0adx/news.php](http://www.df3cb.com/yj0adx/news.php) The QSL manager DL9NDS. Via the buro is fine; direct responses to the US will need 1 IRC or 2 green stamps. (Note: if you go the green stamp route you might want to include a little extra. Postage from Germany to the US is 1.70 Euro and at today's exchange rate you would be close to a dime shy. Ed.)

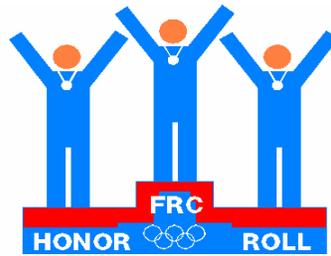
| <b>DX ALERT LEGEND</b> |                        |
|------------------------|------------------------|
|                        | <b>160 METER ALERT</b> |
|                        | <b>IOTA ALERT</b>      |
|                        | <b>RTTY ALERT</b>      |
|                        | <b>WARC BAND ALERT</b> |

***"S"pecial "S"alute***

**"S" "S"** this month to W2YC. 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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[argargano@comcast.net](mailto:argargano@comcast.net)



**MARCH** **CONDUCTED by N2SS** **2006**

**WARC BANDS**

| <u>30 Meters</u>   | <u>17 Meters</u>  | <u>12 Meters</u>  |
|--------------------|-------------------|-------------------|
| <b>K2FL .. 331</b> | <b>K2FL...335</b> | <b>N2TK ..328</b> |
| N2TK .....329      | <b>N2TK ..335</b> | K2FL..... 326     |
| N2LT .....318      | N2LT ..... 332    | N2LT..... 321     |
| W3BGN ....316      | W3CF ..... 331    | W3BGN ... 314     |
| W2YC .....298      | W3BGN ... 328     | W3CF ..... 303    |
| N2SS .....290      | N2SS ..... 320    | N2SS..... 302     |
| W8FJ .....290      | W2UP ..... 305    | W2YC ..... 273    |
| K2PS .....284      | K2PS ..... 303    | K2PS..... 268     |
| W2UP .....272      | W2YC ..... 302    | W2UP ..... 258    |
| N3RD .....256      | W8FJ ..... 291    | W8FJ..... 228     |
| N2MM .....233      | N2MM..... 268     | N1RK..... 218     |
| K3II.....229       | N1RK ..... 253    | KQ3F ..... 217    |
| W2LE.....220       | KQ3F..... 252     | K3II..... 202     |
| KQ3F .....195      | K3II ..... 240    | N3KN ..... 191    |
| AA2WN....174       | W2LE ..... 231    | W2LE ..... 191    |
| W2RQ .....144      | W2YR ..... 202    | W2YR ..... 187    |
| AB2E .....128      | N3KN ..... 171    | N2MM ..... 185    |
| W2YR .....131      | W2RQ ..... 142    | AB2E ..... 92     |
| K3CT .....126      | K3ND ..... 124    | K3CT ..... 76     |
| N3KN.....126       | AA2WN ... 122     | W2RQ ..... 62     |
| N1RK .....107      | AB2E..... 108     | K3GYS ..... 30    |
| K3ND.....85        | K3CT..... 91      | N2VW..... 28      |
| N2VW.....76        | K3GYS..... 85     | AA2WN..... 20     |
| W3CF.....61        | N2VW ..... 67     |                   |
| K3GYS .....17      |                   |                   |

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**

|                       |                |
|-----------------------|----------------|
| <b>W3BGN .....293</b> | W2RQ ..... 123 |
| AA1K .....289         | K2PS ..... 106 |
| WT3Q .....259         | W2CG ..... 95  |
| N2TK .....250         | AB2E ..... 94  |
| N2LT .....248         | N2VW ..... 85  |
| K3SX .....233         | W2YR ..... 81  |
| NO2R .....222         | N2SS ..... 79  |
| W8FJ .....213         | W3CF .....77   |
| K3JIG .....200        | K3NL ..... 70  |
| W2UP .....195         | K3CT ..... 63  |
| N2MM .....182         | KQ3F ..... 57  |
| W2YC .....182         | N1RK ..... 51  |
| K3NM .....156         | AA2WN ..... 50 |
| N3RS .....156         | N3KN ..... 34  |
| K3II .....149         | W2LE ..... 28  |
| K2FL .....142         | K3GYS ..... 12 |
| K3ND .....136         |                |

W3BGN continues as the undisputed Top of Top Band.

**Digital**

|                     |                |
|---------------------|----------------|
| <b>W2UP.....337</b> | KQ3F ..... 132 |
| N2LT .....332       | W2LE..... 124  |
| K2PS.....288        | W2CG..... 66   |
| W2YC.....253        | N2SS ..... 53  |
| AA2WN.....187       | N1RK..... 39   |
| N3KN .....181       | K3GYS ..... 15 |
| W2YR.....132        | W8FJ..... 12   |

**MOBILE DX**

|                      |                 |
|----------------------|-----------------|
| <b>W2YC .....276</b> | K3GYS ..... 143 |
| AA1K .....270        | AA2WN ..... 131 |
| N2SS.....234         | W2YR..... 28    |

**1.5K Club**

|                        |                       |
|------------------------|-----------------------|
| <b>K2FL..... 1708</b>  | <b>N2SS.....1521</b>  |
| <b>W3BGN .... 1696</b> | <b>K3ND .....1501</b> |
| <b>N2TK ..... 1689</b> | KQ3F .....1453        |
| <b>N2LT ..... 1684</b> | W2CG .....1408        |
| <b>W2UP ..... 1666</b> | W3CF .....1403        |
| <b>W2RQ..... 1623</b>  | AA2WN.....1379        |
| <b>N3RS..... 1603</b>  | N1RK.....1289         |
| <b>W8FJ ..... 1594</b> | N2VW .....1270        |
| <b>K3II ..... 1573</b> | K3CT .....1229        |
| <b>W2YC ..... 1549</b> | W2LE .....1175        |
| <b>N3RD ..... 1534</b> | W2YR.....1153         |
| <b>NO2R..... 1533</b>  | N3KN .....1120        |
| <b>K2PS ..... 1524</b> | K3NM.....1107         |
| <b>N2MM ..... 1524</b> | AB2E .....1164        |

**Islands On The Air**

|                      |                |
|----------------------|----------------|
| <b>K2FL..... 999</b> | N2VW .....261  |
| N2SS ..... 828       | W3CF .....253  |
| W2YC ..... 624       | W2YR.....244   |
| W8FJ ..... 604       | K3GYS .....222 |
| N1RK ..... 546       | AB2E .....205  |

**6 METER DXCC**

|                      |               |
|----------------------|---------------|
| <b>N2LT..... 106</b> | N3KN .....52  |
| <b>K2PS..... 101</b> | W2YR.....44   |
| AA1K ..... 99        | W2YC.....21   |
| K3OO ..... 77        | AA2WN.....15  |
| K3SX..... 75         | N2TK.....12   |
| N1RK ..... 57        | K3GYS .....10 |
| N2SS ..... 55        |               |



# THE FRANKFORD RADIO CLUB NEWSLETTER

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



Affiliated Club

## The Frankford Radio Club

### Club Officers

President, **K3ZV**, John Lindmeier .....856-768-5348  
Vice Pres, **N3DXX**, Art Hitchens .....  
Secretary, **W2RDS**, Rick Stoneking..... 609-265-0885  
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Activities, **N3AD**, Alan Donziger .....610-581-7032  
Awards, **K2QM**, Dan Marlow ..... 609-683-5633  
Membership

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Email: kq3f@comcast.net  
Email: w2rds@arrl.net

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

**Home Page** - [www.gofrc.org](http://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  
144.930 W2JT  
144.950 K3ZV  
145.010 N3ED  
145.530 K3WW  
145.530 AA1K  
145.570 WT3Q  
145.570 K2TW  
145.590 N2NT  
145.670 W3PP  
145.730 N2BIM

## Telnet DX Cluster

[k2ut.gofrc.org](http://k2ut.gofrc.org)  
[k3ww.gofrc.org](http://k3ww.gofrc.org) 7300  
[kf3b-2.gofrc.org](http://kf3b-2.gofrc.org) 7300  
[w3frc.gofrc.org](http://w3frc.gofrc.org) 7300