



THE FRANKFORD RADIO CLUB NEWSLETTER

PROFICIENCY THROUGH COMPETITION

CALENDAR

September 2006:

- 2-3 All Asian DX Contest, SSB
- 9 North American Sprint, CW
- 9-10 Worked All Europe Test, SSB
- 12 FRC Main Meeting, Phila.**
- 12 Remy Meeting B**
- 16 North American Sprint, SSB
- 16-17 Scandinavian Test, CW
- 21 T.I.T.S. Meeting, Noon**
- 23-24 CQWW RTTY DX Contest
- 23-24 Scandinavian Test, SSB
- 26 Remy Meeting B**

October 2006:

- 7-8 Oceania DX Contest, SSB
- 7-8 California QSO Party
- 10 FRC Main Meeting, Phila.**
- 10 Remy Meeting B**
- 14-15 Oceania DX Contest, CW
- 14-15 Pennsylvania QSO Party
- 19 T.I.T.S. Meeting, Noon**
- 21-22 Worked All Germany Contest
- 24 Remy Meeting B**
- 28-29 CQWW SSB DX Contest**

November 2006:

- 4-5 ARRL Sweepstakes, CW
- 11-12 Worked All Europe, RTTY
- 11-12 OK/OM DX Contest, CW
- 14 FRC Main Meeting, Phila.**
- 14 Remy Meeting B**
- 16 T.I.T.S. Meeting, Noon**
- 18-19 ARRL Sweepstakes, SSB
- 28 Remy Meeting B**
- 28-29 CQWW SSB DX Contest**

CHANGES

New Members

See Page 2

Deadline for October issue:

Sunday, September 24, 2006

President's Column

I just got back from a week in Disney World. When I picked up my mail at the post office, I found the September issue of QST in the pile. When I got home, I immediately went to the results of the ARRL SSB contest.

The only thing I can say is GREAT JOB !!! The club had many top finishers. **N3RS** and **WE3C** were 1 and 2 in the M2 category with **K3000** taking 5th spot. **AA1K** and **W3BGN** were in to top 10 in the SOH category. **N3AD** and **K3WW** were 3 and 4 in the SOA category. Even my little effort with Bob at **N2RM** finished 7th in the M2 category with **W2ZQ** (an **FRC** operation) finishing 8th. Our Dxpeditions at WP2Z (**N2TK**) and 6V6U (**K3IPK**) had great showings. P40W (**W2GD**) ran away with the DX Assisted category.

So, we came in second to the YCCC by about 22 Meg. But, still, this is a great showing by the club. It shows what Team **FRC** can do when we all work together. At the meetings this fall, I would like to hear from the members about what we can do to close the gap and come out on top again. I know the club can do it. We have done it before. 22 Meg may sound like a lot but I look at it as a challenge. And challenges are what contesting is all about.

It's time to get pumped up for the fall contest season. The CQWW is right around the corner. It's time to get the stations ready and our minds focused on the challenges ahead.

I hope to see many of you at the September 12th meeting at the college.

73 - John - K3ZV

CQWW SSB Plans

Doug, **W3CF** is now taking a list of stations looking for ops for CQWW SSB. This includes DXpeditions. For instance, if an op is planning a DXpedition, he might want to open up his station to a guest operator.

And if you're an op looking for a station, please let Doug know.

You can email Doug at w3cf@verizon.net.

MEETINGS

Main Meeting

BACK AT THE COLLEGE

The main monthly meeting of the **Frankford Radio Club** will be held Philadelphia on Tuesday, September 12 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, September 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.

NEW MEMBERS

Peter J. Dougherty - W2IRT

79 Beverly Road
PO Box 1623
West Caldwell, NJ 07007
email: w2irt@arrl.net

Frank Huminski - K2SQS

307 Monroe Ave
Edgewater Park, NJ 08010
email: k2sqs@comcast.net

Joe Fisher - KC2TN

2219 Oakland Lane
Atco, NJ 08004
email: kc2tn@comcast.net

W2IRT Late Summer Party

I'd like to extend an invitation to any **FRC** member and **XYL** who'd like to stop by our first annual Late Summer Bash, taking place at my home QTH in West Caldwell, NJ. on Sunday, **SEPTEMBER 10th**, anytime after noon until about 7 PM or so.

We're at 79 Beverly Rd., West Caldwell, NJ. This is at exit 52 (westbound) on I-80, about 25 miles west of the **GWB** and New York City.

Weather permitting, the **BBQ** will be going full-tilt and there will be lots of extremely cool folks to meet; probably a football game or two on the **HDTV** in the den and a **C31XR** with 1500W pointed to Europe if anybody feels like playing in **WAE-SSB** a little.

Cheers, Peter, **W2IRT**

SK

Richard G. (Dick) Ballou,

K3MQH, V26T

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. **Please contact KQ2M if you have mailed a contribution but are not shown on the list in the newsletter.**

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 August 27, 2006 (contributors since the last list are in bold)

AA1K/AB1P/N3TTT	K300/K3000	W2RD/N2WYT			
AA2WN	K3CC	KD2RE - GA	N3RD	W2OX	W3MF
AA2U	K3CP/5	KQ2M	N3RS	W2REH	W3MM
AA3B	K3CY	KQ3F	N3RW	W2TV	W3PA
AB2IO	K3FMQ	N1RK	N3VV	W2UDT	W3RAT
AD3Z	K3GYS	N2CQ	N3YW	W2UP	W3SOH
K2AX	K3II	N2ED	N3ZA	W2VJN - OR	W4AA - FL
K2DM	K3JGJ	N2LT	N5RA - CA	W2YC	WA2VYA
K2FL	K3JJG	N2MR	NA2U	W2YR	WA3LRO - CA
K2GN	K3MD	N2SS	NC1A	W3AP	WA3RHW
K2JF	K3ND	N2TK	NK3N	W3BG	WB4FDT
K2OWE	K3NZ	N2VW	NO2R	W3BGN	WE3C
K2PS	K3PH	N3BB/5 - TX	NQ3N	W3CC	WK2W
K2QM	K3WW	N3BNA	NW3Y	W3EA	WQ3E
K2QPN	K3YD	N3DL	NZ3O	W3EEE	
K2SB	K3ZV	N3DXX	W1GD	W3FV	
K2SG	K9RS	N3ED	W2CG	W3FVT	
K2UT	KC2NB	N3ISH	W2GD	W3GK	
K2WJ	KC3WX	N3KR	W2LE	W3KV	
K3ATO	KD2HE	N3NA	W2OF	W3MA	

K2AX Summer Meeting Photos (courtesy N2SS and W2YR)



K2AX Summer Meeting Photos (courtesy N2SS and W2YR)



CONTESTING — TIPS, TECHNIQUES, RESOURCES

Reprinted with permission from the August 9, 2006 Contest Rate Sheet

If you wish your noise-cancelling Bose headphones came with a boom mike, Doug K1DG shows you how to "make it so" at <http://tinyurl.com/mxl6c> A bit of work with a drill and little, tiny screws and there you are!

Trying to get stuck hardware apart? Dino K6RIX gives this wholehearted endorsement to PB Blaster. "Some products are rust removers and others are penetrants and lubricants. PB Blaster is BOTH! No need to climb twice. Take it up with you and get the job done!" - <http://tinyurl.com/bnxsm>

In this era of high copper prices, surplus lengths of enameled wire can often be had for free or a small fee from electric motor rewinding shops. Lengths of dozens of feet aren't long enough for windings in many cases and have to be discarded or carted to the scrap dealer. If there is such a shop in your town (and most mid-sized and larger towns have at least one), it might be worth stopping in to check. (Thanks, JC K0HPS)

Several folks in the construction business remind tower builders to keep the surface of a concrete base wet during the first week of the curing period. This prevent cracks due to the surface hardening faster than the inside. Either keep the surface misted with water or place old rugs or cloth on top of the concrete and keep them wet. Don't be hasty - it takes 28 days for concrete to cure to 90% strength!

There are a lot of times when we'd like to find out whether two locations are line-of-sight. With the availability of highly detailed, accurate mapping data in electronic form, the answer to this and other similar questions isn't that far away. Kevan NS4T recommends MicroDEM by Dr. Peter Guth of USNA. It can do terrain mapping, overlay road maps, and similar useful tricks. And the price is right - free! Get the program at <http://tinyurl.com/lche>

Does the rumble of distant thunder make you nervous? Thomas KN4LF contributed a couple of Web URLs for information about lightning protection - <http://groups.yahoo.com/group/LightningProtection> and <http://www.lightningsafety.com/>

Diamonds are a ham's best friend - L.B. Cebik, W4RNL has a short article about rhombics on his web page (<http://www.cebik.com/radio.html>) in the series Antennas From The Ground Up. L.B. has also started a new series on Long Wire Antennas (www.cebik.com/wire/lw1.html <http://www.cebik.com/wire/lw1.html>) which will eventually have a detailed analysis of the V-beam and rhombic. (Thanks, Henry K4TMC)

Reprinted with permission from the August 23, 2006 Contest Rate Sheet

A recent issue of "Radiouser" (<http://www.radiouser.co.uk/>) contained an ad for a new weather satellite receiver (The R2FX from Holger Eckhardt) sold by the Group for Earth Observation (GEO - <http://www.geo-web.org.uk/>). GEO is an amateur radio group that promotes reception of data from weather and Earth-imaging satellites. The group offers satellite reception hardware, image handling software, and a lot of information about these satellites and how to receive their signals.

Dave N0RQ contributes a nice on-line coax calculator - <http://www.ocarc.ca/coax.htm> - that does a fine job of making it easy to calculate losses. Select the type of cable, the frequency, the length, press the button and no more neper's!

Dave also gets this issue's Daily Double with his Web site dedicated to power-line noise (preventing, not promoting) - <http://www.powerlinenoise.com/> There are links to quite a few useful topics, including recording and commentary on different types of noise. (As if we don't already hear enough of it...)

Larry N8LP refers us to an excellent source of quality dummy loads at very reasonable prices - <http://ridgeequipment.com/store/page1.htm>. There are several models of up to 200-watt capacity. And no mineral oil!

CONTESTING — TIPS, TECHNIQUES, RESOURCES

Reprinted with permission from the August 23, 2006 Contest Rate Sheet

Those of you in the process of beefing up your low-band antennas might benefit from a reading of this article on radials by K3LC - <http://www.ncjweb.com/k3lcmaxgainradials.pdf> The article contains a simple formula for calculating an optimized number and length of radials based on a fixed length of wire. I.e. - you score a 500'

spool of hookup wire at the hamfest, so how many radials should be made from the wire? (Thanks, Hasan N0AN)

With the price of cable and wire of all sorts going up, here's a nice tip about low-current control cable from Rick N6RK. He uses Cat-5 Ethernet cable obtained cheap or free by scrounging it or buying it on sale. It has eight conductors to for dc applications such as a relay and allows you to use a separate conductor for each dc return. This avoids overloading one conductor with too much current.

TECHNICAL URL OF THE WEEK -- This week, it's a pair of URLs. In his extensive antenna building exercises, John WOUN has found these two useful sites for design work. "The first gives a bit of technical information for a wide variety of materials but I find it most interesting for getting an idea of the cost of some of the materials. I have found the prices to be competitive, but what is most handy is the price calculator - <http://www.professionalplastics.com/> The second useful reference is the 61-page guide from Regal Plastics - <http://www.stealth316.com/misc/engineered-plastics.pdf> It has good overview information on just about everything, as well as telling you what an item is when you only have a trade name. It doesn't provide all of the detailed specs on a particular item but it does give you some insight into applications and points you in a direction to find more information from the manufacturer."

Radio Doping

All summer we have been treated to one doping scandal after another in biking and track and baseball and who knows what will happen once the ice dancing season gets started! It's a darn good thing that radiosport doesn't have that problem, isn't it? Well? I wish I could say that was true, but there are a couple of contest practices that sure seem to be similar in spirit.

I'm not talking about the time-honored cheating methods of rubber clocking, running gas, "working the Callbook", more than one signal transmitted at a time, etc. etc. Those are sufficiently detectable such that there is a high enough risk to deter most of the potential perpetrators. Kind of like speeding - there are enough policemen out there to keep most of us more or less in line, or at least conforming to customary behavior.

What I am talking about occurs in a couple of forms. The first is just blatant cheating - that's the use of spotting network information ("packet spots") without submitting your score in the Assisted category. To be sure, some new contesters just don't realize that using information about the contest during the contest from *any* source (packet, Web site, local spotting net) requires them to submit an Assisted category score. Then there are the casual cheaters - "I'll just peek a little bit" or "I'll have the node connected, but I won't look at it." We can all imagine where that leads.

Then there are the incorrigible packet poachers. They mysteriously manage to appear in the pileup within seconds of the spot being broadcast. Funny thing - their score is always Single-Op, Unassisted. Hmmm. Or maybe a series of spots are posted directing callers to their frequency, always by unusual calls that you've never heard of. Another funny thing. Hmmm.

Luckily for the rest of us, the packet poacher patterns are becoming easier and easier to detect in their logs. It's also getting harder and harder to spot yourself without leaving a trail of bread crumbs that's easy for the contest sponsors to see. The solution is education for the newcomer and disqualification for the intentional cheater. If you're new to contesting and have just discovered that you committed a rules transgression, don't have a cow, just change the way you operate! If cheaters decide they don't want to play anymore, well, I hope they don't let the door hit 'em on their way out!

What's that second type of "doping?" This one doesn't violate any written rules, but is just as pernicious as packet poaching and is just as corrosive to operating ability. I'm talking about post-contest log manipulation, also known as "log cleansing." I don't know of any other sport where the contestants are allowed to go back and tidy up their performances. Does

CONTESTING — TIPS, TECHNIQUES, RESOURCES

Tiger get to go back and use a longer iron on that shot from the rough? Does Ronaldinho get to go back and give that corner kick another try? I don't think so.

Let's be clear - Tiger and Ronaldinho both get to *practice* those shots as much as they want between matches. But on match day, you play it once and once only. When the last putt goes in on the 18th hole or the referee blows the whistle, it's over, finished, done.

Yes, I know there are terrific software packages that can analyze your whole log in 30 seconds, outputting a complete list of possibly busted calls, discrepancies in exchanges, erroneous multipliers and so forth. Those are great for practice. Sanitizing your submitted log to make you look like a better operator than you were is just false pretenses. It's like plagiarizing on your term paper or using forbidden notes on an exam. You may improve your grade, but you still don't know the material.

And here's the part that really hurts you in the long run - as long as you know you're going to run the log checking program after the contest, the pressure to get it right the first time, every time is lessened. You think, "Well, I'll just listen to the audio again or let the software fix it." How does that make you a better operator? It doesn't! Contesting awards are not intended the combination of operator and log-processing software.

There's no reason why the vast majority of single-op contest logs couldn't be emailed to the contest sponsor within a very few minutes after the end of the contest. Use the software *after* you submit your log to help you find weak spots in your technique and develop your skill level for the *next* contest. Tossing away your contest crutches is the only way you're going to really excel in the radiosport game.

(These and a number of other related topics are covered in the ARRL's Web page, "HF Contesting - Good Practices, Interpretations, and Suggestions". (<http://www.arrl.org/contests/hf-faq.html>) Developed by the ARRL Contest Advisory Committee, these helpful hints are intended to explain how things are "supposed to work" in contests. Feel free to distribute that URL or make copies and share them in your contest club. If you have questions or suggestions, as the Chair of the CAC I'd be happy to receive them or ask your contest Elmer.)

73, Ward N0AX



IN STOCK NOW:

- **IC-W32A** VHF/UHF Handheld
- **IC-208H** VHF/UHF Mobile
- **IC-2200H** VHF Mobile
- **IC-7000** HF/VHF/UHF Mobile
- **IC-756PROIII** HF Base Transceiver
- **IC-PW1** 1KW Solid State Amplifier



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www.HamAv.com

E-mail Inquiries: info@HamAv.com

DXCC Announces Accreditation Criteria Rule Change

ARRL's DXCC program has added language to its Accreditation Criteria to minimize difficulties stemming from online DXpedition logs. The change, recently approved by the ARRL Board of Directors Programs and Services Committee, limits the level of QSO detail that DXpeditions may provide on Web-based log sites, search engines or other public forums and still qualify for DXCC accreditation. ARRL Membership Services Manager Wayne Mills, N7NG, notes that it's become accepted practice for DXpeditions to post QSO information on the Web.

"Although this information is generally limited to call sign, band and mode, it has been useful in reducing the number of duplicate contacts in the DXpedition log," Mills points out. "Publishing complete QSO information or information from which full QSO information can be derived, on the other hand, threatens the integrity of the QSLing process, and is unacceptable."

Mills says at least some key information a station provides when submitting a DXpedition contact for DXCC credit must be obtained solely by actually making the QSO. "If complete contact information can be derived from information based on the DXpedition log, the QSL manager's job can be much more difficult if busted calls are involved," he says.

Section III, Accreditation Criteria, Rule 5, of the DXCC rules states:

"The presentation in any public forum of logs or other representations of station operation showing details of station activity or other information from which all essential QSO elements (time, date, band, mode and call sign) for individual contacts can be derived creates a question as to the integrity of the claimed QSOs with that station during the period encompassed by the log. Presentation of such information in any public forum by the station operator, operators or associated parties is not allowed and may be considered sufficient reason to deny ARRL award credit for contacts with any station for which such presentations have been made. Persistent violation of this provision may result in disqualification from the DXCC program."

"In almost every case, the new accreditation rule will change nothing," said Mills, calling the new rule a "reasonable compromise" in terms of its impact on the program's integrity. "Publishing band and mode information for each call sign -- as is now done -- is perfectly acceptable. It is only the rare case where complete QSO information is published or can be derived from published data that we are concerned about."



Less than 60 Days to CQWW SSB.....Don't Wait!

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)

ICOM to be 2006 ARRL November Sweepstakes Principal Awards Sponsor

Icom has generously agreed to serve for a second year as principal awards sponsor for the ARRL November Sweepstakes. The Amateur Radio equipment manufacturer first took on that role for the 2005 events. This week, the company announced it would do the same this year. The 2006 CW Sweeps takes place November 4-5, while the phone Sweeps is November 18-19. Under its agreement with ARRL, Icom will be the principal sponsor for nearly 150 unsponsored contest plaques that recognize various levels of operating achievement in the popular annual competition.

"We are pleased to continue our role as principal awards sponsor for the 2006 November Sweepstakes," said Icom Amateur Radio Products National Sales Manager Ray Novak, N9JA. "It's a mutually beneficial arrangement and enhances the contesting experience for everyone."

ARRL Chief Operating Officer Harold Kramer, WJ1B, said the agreement with Icom will permit the League to recognize the accomplishments of many more of Sweepstakes participants, not just the very top scorers. Contest award plaques lacking club or individual sponsorship typically cost their winners \$60 to \$70 apiece.

The 2005 ARRL-Icom Sweepstakes pact marked the first-ever corporate awards sponsorship for ARRL November Sweepstakes awards. Kramer has assured members -- in particular, regular ARRL contest participants -- that Icom's sponsorship will not in any way affect the integrity of the League's overall program of operating events. Individuals and non-commercial organizations already sponsor many plaques, and ARRL and Icom encourage their continued participation in the awards program.

Reported "Firedragon" Jammer/Intruder Shifts Frequency

A Chinese-language "intruder" signal first spotted earlier this summer on 14.260 MHz this week shifted frequencies. International Amateur Radio Union Region 1 Monitoring System (IARUMS) Vice coordinator Uli Bihlmayer, DJ9KR, says the powerful jammer -- dubbed "Firedragon" -- had been transmitting solely Chinese music on 14.260 MHz since August 5.

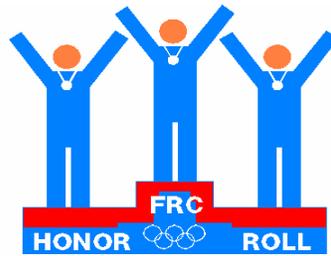
"This offender is active day and night -- all day, every day -- and causing very harmful interference to the Amateur Radio Service," Bihlmayer informed ARRL Monitoring System/Intruder Watch Liaison Chuck Skolaut, K0BOG, and IARU Region 2 Monitoring System Coordinator Bill Zellers, WA4FKI, on August 15. In an August 17 update, however, Bihlmayer said the music jammer had moved to 14.050 MHz. That part of the 20-meter band is allocated to the Amateur Radio Service on an exclusive basis throughout the world. Prior to August 5, Skolaut said, reports indicated that the transmission contained both talk and music and was more intermittent, but "now it's pretty continuous and entirely music."

According to Bihlmayer, German telecom authorities pinpointed the transmitter's location as Hainan Island in Hainan Sheng Province, Peoples' Republic of China (PRC), located south of the mainland in the Gulf of Tonkin. Hainan Island also was the apparent source of an over-the-horizon radar signal heard on 75 meters in Region 3. Bihlmayer said.

Citing complaints from members, Skolaut has reported the intruder to the FCC, although as he and Zellers point out, the Commission has no authority to make intruder stations outside the US stop transmitting on Amateur Radio frequencies. Such situations typically are dealt with through diplomatic channels.

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





SEPTEMBER **CONDUCTED by N2SS** **2006**

WARC BANDS

<u>30 Meters</u>	<u>17 Meters</u>	<u>12 Meters</u>
K2FL.. 335	K2FL...338	N2TK ..329
N2TK332	N2TK 337	K2FL..... 327
W3BGN319	N2LT 332	N2LT..... 321
N2LT318	W3CF 332	W3BGN... 315
W2YC303	W3BGN ... 331	W3CF 303
N2SS291	N2SS 322	N2SS..... 302
W8FJ291	W2UP 312	W2YC 275
K2PS284	W2YC 306	K2PS..... 268
W2UP277	K2PS 303	W2UP 259
N3RD258	W8FJ 294	W8FJ 229
N2MM233	N2MM..... 268	N1RK..... 218
K3II232	N1RK 253	KQ3F 217
W2LE220	KQ3F 252	K3II 203
KQ3F195	K3II 246	N3KN 191
W2IRT183	W2LE 231	W2LE 191
AA2WN...174	W2IRT..... 209	W2YR 187
W2RQ144	W2YR 202	N2MM 185
K3CT134	N3KN 171	NA2U 156
AB2E132	NA2U 167	W2IRT 105
W2YR131	W2RQ 142	AB2E 92
N3KN126	K3CT 126	K3CT 83
NA2U110	K3ND 124	W2RQ 62
N1RK107	AA2WN... 122	K3GYS 30
K3ND85	AB2E 108	N2VW 28
N2VW76	K3GYS 85	AA2WN..... 20
W3CF61	N2VW 67	
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

W3BGN296	K2PS 106
AA1K290	W2CG 95
WT3Q261	AB2E 94
N2TK252	N2VW 85
N2LT248	NA2U 83
K3SX233	W2YR 81
NO2R226	N2SS 79
W8FJ216	W3CF 77
W2UP200	W2IRT 74
K3JIG200	K3NL 70
W2YC186	K3CT 63
N2MM182	KQ3F 57
K3NM156	N1RK 51
N3RS156	AA2WN 50
K3II152	N3KN 34
K2FL143	W2LE 28
K3ND136	K3GYS 12
W2RQ123	

W3BGN continues as the undisputed Top of Top Band.

Digital

W2UP338	KQ3F 132
N2LT332	W2LE 124
K2PS288	W2CG 66
W2YC260	N2SS 53
AA2WN187	N1RK 39
N3KN181	K3GYS 15
W2IRT141	W8FJ 12
W2YR132	

MOBILE DX

W2YC276	K3GYS 143
AA1K273	AA2WN 131
N2SS234	W2YR 28

1.5K Club

K2FL..... 1715	K3ND1501
W3BGN 1705	KQ3F1453
N2TK 1697	W2CG1408
N2LT 1684	W3CF1403
W2UP 1666	AA2WN1379
W2RQ 1623	NA2U1365
N3RS 1617	N1RK1289
W8FJ 1600	N2VW1270
K3II 1573	K3CT1180
W2YC 1567	W2LE1175
N3RD 1540	W2YR1153
NO2R 1536	N3KN1120
N2SS 1526	K3NM1107
K2PS 1524	AB2E1164
N2MM 1524	W2IRT1014

Islands On The Air

K2FL..... 1010	W3CF253
N2SS 833	W2YR244
W2YC 639	W2IRT232
W8FJ 604	K3GYS222
N1RK 546	AB2E205
N2VW 261	

6 METER DXCC

N2LT106	N3KN52
K2PS101	W2YR44
AA1K 99	W2YC29
K3OO 77	AA2WN15
K3SX 75	N2TK12
N1RK 57	K3GYS10
N2SS 55	



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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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

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
w3frc.gofrc.org 7300