



# THE FRANKFORD RADIO CLUB NEWSLETTER

*PROFICIENCY THROUGH COMPETITION*

## CALENDAR

### November 2009:

- 7-8 ARRL Sweepstakes, CW
- 14-15 Worked All Europe, RTTY
- 14-15 OK/OM DX Contest
- 19 T.I.T.S. Meeting, Noon**
- 21-22 ARRL Sweepstakes, CW
- 21-22 LZ DX Contest
- 24 Rexy Meeting B, 8 PM**
- 28-29 CQWW DX Test, CW**

### December 2009:

- 4-6 ARRL 160 Meter Contest
- 12-13 ARRL 10 Meter Contest
- 17 T.I.T.S. Meeting, Noon**
- 19 OK DX RTTY Contest
- 19-20 Croatian CW Contest
- 22 Rexy Meeting B, 8 PM**
- 26 RAC Winter Contest
- 30 FRC Pizza Blast, Noon**

## CHANGES

### New Members

#### WM3L

Bill Henderson  
2016 Fort Bevon Road  
Harleysville, PA 19438

#### W3TS

Dana "Mike" Michael  
129 Church Ln  
Halifax, PA 17032-8372

### Deadline for December issue:

Sunday, November 22, 2009

## President's Column

Greetings **FRCers!**

I want to thank those of you who were active during the recent CQWW SSB Contest. The sun finally showed signs of coming out of its extended siesta, and 15M propagation was pretty good. There have been lots of good scores posted on the reflector or listed on 3830. If you can't generate millions of points please don't despair. Remember that the little scores add up and help the club effort too. Every point counts!

Now we shift our focus to the CW weekend. If you have not already done so, please mark you calendars for the weekend of Nov 28-29. Make any last-minute preparations that are needed. Take your XYL or your family out to dinner a few days before the contest so you can maximize your time in the operating chair without feeling guilty. ***Make a point to be on the air as much as you possibly can!*** We can beat YCCC, but only if we sit in front of our radios and make points. ***Just do it! CU in the pileups!***

A few more thoughts. As your president for over 2 years now I'm becoming quite frustrated about our meetings. Why is it that so few make an effort to attend our meetings? We've listened to feedback from everyone and changed many things in an effort to stimulate attendance. We've changed our meeting venue to a very nice facility in a central location. We've scheduled one meeting on a weekend. We've arranged good programs for each of our last two meetings and yet the combined attendance for both meetings has been only 31 members. I'll be honest with you - I'm discouraged and frustrated. **What's up?** It looks to me like apathy has taken over our club. There will be no formal November meeting this year. The next meeting will be the Pizza Blast on December 30th at 12 noon.

Finally, I would like to thank Larry, **K2GN** for his stellar efforts to update and improve the **FRC** Web site. Take time to check out his efforts and give him feedback. **Thanks, Larry! It's looking great!!**

**SK**

**Dallas Carter, W3PP**

**Pete Radding, W2GJ**

**John Balch, W3KG (ex W3AES)**

**2009 FRC Fund Drive**  
**All Contributors in alphabetical order**

AA1K/AB1P	K3JGJ	KQ3F	NA2U	W3BG	WA2VUN
AA2WN	K3MD/N3PVR	KV2M	NC1A	W3BGN	WA3LRO (CA)
AA3B	K3ND	N2CQ	NQ3N	W3BGN	WA3RHW
AB2IO	K3NL	N2LT	NW3Y	W3CF	WA3WLH
K2CJ	K3OO/K3OOO	N2TK	W0MHK	W3EA	WB3FIZ
K2FL	K3PH	N2VW	W2CG	W3FV	WB3FIZ
K2GN	K3SWZ	N3AD	W2GD	W3KB	WB4FDT
K2PS	K3TEJ	N3ED	W2GJ/C6APR	W3KV	WE3C
K2SG	K3WW	N3GNW	W2LE	W3MF	WE3E
K2UT	K3YD	N3KN	W2MC	W3MM/W3RAT	WQ3E
K3ATO	K9RS	N3KR	W2RD	W3SOH	
K3FMQ	KC2TN	N3RW	W2UDT	W3SQ	
K3FT	KD2RE	N3VV	W2YC	W4AA (FL)	
K3GYS	KD3TB	N3YW	W2YR	W8FJ	
K3II	KQ2M	N8NA	W3BG	WA2FYA	

**MEETINGS**

**T.I.T.S. meeting**—The Trexlertown International Transmitting Society meets on Thursday, November 19 at 12:00 noon. Location is the Hometown Diner on Route 222 in Trexlertown..

**Rexy Meeting B**—The Rexy's FRC Meeting B will meet about 8 PM on the fourth Tuesdays of the month.

**FRC Pizza Blast**



This year's FRC Pizza Blast is 12:00 Noon on Wednesday, December 30. Location is the Crossroads Hotel, 1443 Main Street, Hellertown, PA. Contact Dave, W3MM, for more information.

### **Reprinted with permission from the October 14, 2009 ARRL Contest Update**

WRTC-2010 continues to take shape with the announcement of Team Leaders. The new method of selecting team leaders by compiling contest scores has resulted in a number of new call signs in the mix. There have been some changes over the past week, so keep an eye on the WRTC-2010 Web site. Who will the Team Leaders will select as their partners? Referees are now being nominated and volunteering their applications. A video of the 2009 Russian Radiosport Team Championship is also available, showing the same locations and conditions for WRTC-2010. (Thanks, Harry RA3AUU)

CQ WPX Director, Randy K5ZD has started another survey about the contest regarding the rules for Multioperator, Single-Transmitter (MS) category entries. Anyone with an interest in MS should take a few minutes and make their feelings known. The previous survey on Single-Operator vs Single-Operator, Assisted (Survey #2) is still active as of this issue's date of publication.

CW Skimmer author VE3NEA has extended his CW decoding software to new multi-band abilities with SkimmerServer. If you have one of the open-source QS1R direct-sampling software-defined radios, you will be able to monitor multiple bands at one time. (Thanks, Wes WZ7I)

W1VE and K1TTT's real-time contest scoreboard is ready to go for the peak of the fall contest season: CQ WW SSB, SS CW, SS SSB, and CQ WW CW. Well in advance of starting the contest, remember to test your logging program to be sure it uploads your score properly. (Thanks, David K1TTT)

To help with CQWW preparations Stan EI6DX has put together a CQ WW analysis program that parses all last year's logs, calculates QSO rates, and sums it all up by time, band, zones and other parameters. It runs online using Flash and javascript. If your browser has trouble with these, there is a plain HTML format, too.

The Potomac Valley Radio Club (PVRC) Webinars are becoming quite popular - and all of them are archived for you to watch at any time. The latest program, certainly of timely interest, is on the CQ World Wide 2009 Contest. CQ WW DX Contest Director Bob Cox K3EST and CQ WW Committee members John K1AR and Doug KR2Q discussed this year's contest, including questions and answers from the audience. Upcoming programs include a look at LZ9W by Wally LZ3CJ on Oct 17 and Propagation Prediction Programs by Carl K9LA. Registration details are all available by clicking the PVRC Webinars link at the top of the home page. (Thanks, Ken K4ZW)

Jim AD1C has a new version of ClubScore - a program for filtering out the scores for a particular club from the 3830 Score Summary emails. The program is still be developed and fine-tuned, so if you try it, let Jim know if you run into any problems.

Not to be left in the Webinar wake, the Top Bander also has a program to enjoy -- a full presentation discussing the city-lot-sized 160 meter antenna of John K6MM in the June 2009 *QST*. This Webinar is scheduled for the date of this issue (Oct 14) but should be available in the archives, as well, as described earlier in this issue. Take a look at the Webinar quick-start guide and get registered or log on later and watch the program from the archives.

Once on the band, Top Banders (and anyone living close to an AM broadcast station) quickly learn the need for BC-reject filters. Jeff F6AOJ has designed several filters to reduce interference so that he can use Beverage antennas on the nearby 160 meter band. (It will help if you speak French a little bit...)

Soil chemistry is the key to selecting radial wire that does not deteriorate in the soil, says Red WOØW. Aluminum cannot tolerate alkaline soil with a pH greater than 7.0. Iron, zinc, and copper cannot tolerate acidic soil with a pH less than 7.0. You can get a soil pH testing kit at your local garden center.

Whatever type of wire you choose to use as radials, holding those wires down leads to some creative solutions. Ross KB8NTY has developed a useful product called "Antenna Radial Staple Anchor Lawn Pins" that will do the job "just right". The pins are about 2 inches long and have a special shape at the top to capture and secure the wire. They look useful for all sorts of small "hold down" jobs.

### Reprinted with permission from the October 14, 2009 ARRL Contest Update

Steve NU7T posted a long list of propagation and related resources. Here are some of the highlights:

Zone-to-zone useable frequencies

The NCDXF beacon network

Beacon clock software

160 - 10 meter beacons

Low band beacons

Real-time MUF map

Optimum frequency chart

If you have an analog meter whose glass face is loose - perhaps from too much "percussive maintenance" - reattaching it with regular glue can leave a mess. Carl KM1H has found that automotive mirror glue works great for reattaching the glass to the housing and is available at most auto parts stores. Clear aquarium sealant is also popular.

### Reprinted with permission from the September 30, 2009 ARRL Contest Update

Before starting that tower climb, why not read this useful article about safety body harnesses? (Thanks, Tom N4NW)

The Contesting Compendium now includes K7NV's Guyed Tower Study. It's good reading for someone who is planning to build or improve a tower. While you're there, you can also take a look at the just-published article by K3NA and W2VJN on the VP6DX receiving antennas. (Thanks, Pete N4ZR)

Jim K5LAD has posted the possibly helpful article "Repairing a Tail-Twister Rotator" to help others with balky rotators. In his case, the stainless steel ring gear was damaged, so the repair saga gets into the basics of rotator operation and design.

Frank W3LPL also tosses out a line on rope, "To avoid premature rope failure, a pulley's sheave diameter should be at least eight times the diameter of the rope. The width of the U-shaped groove should be approximately 10 percent greater than rope diameter. The depth of the U-shaped groove should be approximately 1/2 the rope diameter. If you change rope diameter, the pulley should always be replaced with a new pulley with the correct groove width and depth. You can extend rope life by rigging the rope so that it wraps around as little of the sheave circumference as possible. A rope that wraps around half of the sheave circumference will have a much longer life than a rope that wraps almost entirely around the sheave."

A Webinar on HFTA by N6BV is now on-line. It was a live demo, step by step, on how you can download terrain for your station location and analyze the takeoff angle response of your HF antennas. W6YI's station was used as an example. You can view this collaboration by the PVRC and NCCC online, either playing it while it downloads or saving the file and playing it back later. It's a 137 Mbyte WMV file, so obtaining it might take some time! (Thanks, Dean N6DE)



#### Watt Meters

Fill ALL your Thruline® wattmeter needs at <http://www.nm3e.com>

Featuring new and used meters, elements, loads and more by BIRD® and Coaxial Dynamics.

73 Tim Brown NM3E 610-207-4865

### **Reprinted with permission from the October 28, 2009 ARRL Contest Update**

A new release of the Super Check Partial (SCP) database files is now available with 45,552 call signs from 3,706 contest logs. SCP admin Bob WA1Z says, "As always, if you'd like to contribute your Cabrillo format logs for the SCP database, please send them at any time. The easiest thing to do is to add the address logs@supercheckpartial.com on the cc: line of your email at the same time you submit your log to the sponsor's robot after each contest. If you want to check the version of the SCP files you are using, look for a call beginning with "VER". Every SCP file includes the version number in the list of calls in the format VERYYYYMMDD. Please let me know if you find any bad calls in the files." Don't forget that you still have to copy what the station sends!

Denis K7GK has been developing a graphical log analysis since logs have been made public by CQ WW. While it's not 100% finished, "I think it's in decent enough shape where it may be useful to other contesters." Denis has placed a zipped archive file of RateCompare on the Williamette Valley DX Club's Web site in the "Contest Links" list at the left of the page. The archive contains just two files - the executable and an old version of CTY.DAT compatible with the program. The menu items should be fairly self-explanatory.

### **Past, Present, and Future**

At times, it's hard to know what to say. As has been widely reported, the C6APR team members headed for CQ WW SSB were all killed when their private plane crashed on takeoff. Pete W2GJ, Ed K3IXD, Randy K4QO, and Dallas W3PP - we're going to miss you guys. Just a week before, the tragic electrocution of three family members erecting an antenna made the ham headlines. It's been a time of bad news and I hope the families of all those involved eventually find peace.

Every year about this time, I think about the exotic travel many undertake before contests large and small. I've stood on the tarmac as travel cases are crammed into a tiny airplane and the pilot totals up the weight before piloting us from one little island to another. I'm flying cross-country for Sweepstakes and will do so to make an appearance at K3LR again next year. My sailing experiences on the K7C Kure Island DXpedition are burned into my memory. Driving long distances has its own hazards and we've all had our close calls there. So I think about all the travelers as the days get shorter up here above the equator and the bands open longer.

Tom N9NC contributed a few thoughts on the magic of contesting (and by extension, ham radio) that inspires us so. "It has parts of that which we do crave, but adds the challenge and intrigue of propagation sunspots, QRM, competition, etc, and more important, it connects us in ways that maybe only us participants can understand (experience): It's time-limited yet timeless, its frame of reference being this contest, along with all the ones before. It's borderless yet borders matter (mults)."

After news of the plane crash spread across ham radio I observed that perhaps we could take the opportunity to appreciate each other a little more, even in the competitive frenzy, because we never know when a log will be closed, a voice or key silenced for good. When I heard far-flung stations and the big pileups, I did think about the loss of our friends. Their absence was felt in the here and now, although they were very much present in the history we all share and in the common experience described so well by Tom.

Yes, I think we do feel ourselves part of history, yet tuned in to the moment. Contesting is about now - not before and not later - now. Who is calling - now? Where is the band open - now? And at the same time, we are using all of our memories and knowledge, that shared experience Tom evokes, to guide us in what we listen for and where we point the beams and change bands. Every QSO of every operation is a potential part of our history and by participating, we become part of every other operator's history, as well. This shared past, present, and future are what makes us a strong, diverse community of which I'm very proud to be a member. Here's to those that have gone before and here's to us and here's to those that will follow.

73, Ward N0AX

### Four Radio Amateurs Killed in Plane Crash En Route to CQWW Phone Contest

Just after take-off -- around 6:30 AM on Wednesday, October 21 -- a twin-engine plane carrying four Amateur Radio operators crashed into the woods, only 250 yards off the end of the runway in Jedburg, South Carolina, about 20 miles northwest of Charleston. The plane -- piloted and owned by Peter Radding, W2GJ -- carried Ed Steeble, K3IXD, Dallas Carter, W3PP, and Randy Hargenrader, K4QO. The four men were on their way to the Bahamas to operate in this weekend's CQ World Wide Phone Contest as C6APR, competing in the Multi/2 category. Radding, of North Charleston, South Carolina, was 69; Steeble, of Summerville, South Carolina was 68; Carter, of Laurel, Delaware, was 67 and Hargenrader, also of Summerville, was 55. All were ARRL members; Radding and Steeble were Life Members. [Click here for more information.](#)

Robert Biss, W8ZA, of Harpers Ferry, West Virginia, accompanied Steeble, Carter, Radding and Hargenrader to the Bahamas for the 2008 running of the CQWW SSB Contest. [Click here for Biss' remembrances of his four friends.](#)

### Three Killed While Erecting Antenna

At approximately 8:40 PM on October 12, a man, woman and their 15 year old son were killed while trying to erect a 50 foot vertical antenna at the home of the man's mother, Barbara Tenn, KJ4KFF, in Palm Bay, Florida. The deceased were not licensed amateurs. According to police reports, Melville Braham, 55, Anna Braham, 49, and their 15 year old son Anthony were putting up an antenna -- Tenn's second -- at night when they lost control of the antenna and it crashed into nearby overhead power lines. The impact sent 13,000 volts of electricity through the pole that the three were holding. A family friend, a 17 year old boy, was on the roof at the time of the accident. He and the couple's daughter, who was in the house at the time, were not injured. [Click here for more information.](#)

It is now time to start dumping your old International Reply Coupons (IRCs). The "Beijing Model No 2" must be redeemed before December 31, 2009. The new IRC -- the Nairobi Model IRC -- has been available in the US since September 10 and elsewhere since July; the price is \$2.10 each in the US. The Nairobi Model is due to expire in 2013. For more information, [click here.](#) Thanks to *The Daily DX* for the information.



### Contest Season is Here!!!

#### Work Wanted:

Experienced tower climber immediately available to perform antenna and tower maintenance.

Install/repair/remove antennas, replace feedlines and cabling, rotator servicing, guy wire renewal, new tower installations (guyed and self-supporting), and tower removal.

Reasonable hourly rates and scheduling that meets your needs.

Contact: John Crovelli W2GD

w2gd@hotmail.com

Phone: 908 391 5611 (Mobile)

### ARRL Board Adopts Guidelines and Recommendations on the Appropriate Use of Amateur Radio

On Friday, September 25, the ARRL Board of Directors adopted guidelines on the appropriate use of Amateur Radio on behalf of commercial, non-profit and government entities, as well as recommendations for additional steps to be taken by the ARRL to educate radio amateurs and others on how to prepare and train for public service and emergency communications while complying with the current FCC Rules.

At its meeting in July 2009, the ARRL Board created an ad-hoc committee to study the issue and prepare suggested guidelines. The committee submitted its report to the ARRL Executive Committee, which reviewed and revised the document. After additional discussion among Board members by electronic mail and teleconference, the Executive Committee submitted the document to the Board for formal adoption.

Entitled *The Commercialization of Amateur Radio: The Rules, The Risks, The Issues*, the document offers guidelines to assist radio amateurs and anyone wishing to utilize the capabilities of Amateur Radio in understanding the FCC Rules that prohibit communications in which the amateur has a pecuniary interest, including communications on behalf of an employer. While the FCC Rules in this regard have not changed in many years, there has been increasing discussion of the issue as growing numbers of employers and non-amateur organizations recognize the value of Amateur Radio as an emergency communications resource and encourage their employees to obtain amateur licenses. Also included are guidelines for evaluating the appropriateness of Amateur Radio volunteers providing communications services to commercial enterprises and other entities for which other communications systems are available.

"The guidelines are not intended to be the last word on the subject, and surely will not be," observed ARRL First Vice President Kay Craigie, N3KN, and chair of the ad-hoc committee. "The report includes several recommendations for additional steps that the ARRL needs to take to help amateurs and the organizations we serve to better understand the Rules and to ensure that what we do to prepare to be of service in emergencies is consistent with the current Rules."

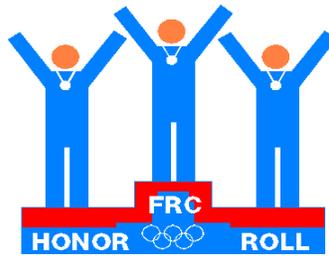
### *Did You Know? WWV and WWVH*

Today, most amateurs know that radio stations WWV and WWVH broadcast time and frequency information 24 hours a day, seven days a week to millions of listeners worldwide. Administered by the National Institute of Standards and Technology (NIST), WWV is located in Fort Collins, Colorado, about 60 miles north of Denver; WWVH is located on the Island of Kauai, Hawaii on a 30 acre site near Kekaha at Kokole Point. Both stations broadcast information that includes time announcements, standard time intervals, standard frequencies, UT1 time corrections, a BCD time code, geophysical alerts, marine storm warnings and Global Positioning System (GPS) status reports. Most hams today think of WWV and WWVH as "time stations." According to *QST* Editor Steve Ford, WB8IMY, that's only half-true: they are really time and frequency stations. "The time signals that you hear are regulated by an atomic clock that uses the oscillations of Cesium atoms as its standard -- 9,162,361,770 oscillations equal 1 second," wrote Ford in the June 1994 issue of *QST*. Click here to discover this part of Amateur Radio history.

<http://www.lz1jz.com>







**NOVEMBER**

*conducted by N2SS*

**2009**

**WARC BANDS**

<u>30 Meters</u>	<u>17 Meters</u>	<u>12 Meters</u>
<b>K2FL .. 337</b>	<b>K2FL...340</b>	<b>N2TK .. 331</b>
N2TK .....335	N2TK ..... 339	K2FL.....327
N2LT .....327	N2LT ..... 337	N2LT .....322
W3BGN ....327	W3BGN ... 334	W3BGN ...318
W2YC .....315	N2SS ..... 327	WØMHK ..313
N2SS .....303	WØMHK. 325	N2SS .....303
W8FJ .....302	W2UP ..... 322	W2YC .....283
W2UP .....296	W2YC ..... 321	K2PS .....270
WA2VYA ..295	K2PS ..... 312	WA2VYA ..269
K2PS .....292	WA2VYA . 303	W2UP .....268
WØMHK ..290	N2MM..... 300	W8FJ .....235
N3RD .....287	W8FJ ..... 300	N1IBM.....234
N2MM .....260	N1IBM ..... 276	KQ3F .....220
W2IRT .....244	W2IRT ..... 270	N1RK .....218
K3II .....234	KQ3F.....270	K3II .....203
W2LE .....223	N1RK.....266	W2LE .....202
N1IBM.....222	W2LE ..... 261	N2MM .....194
KQ3F .....217	K3II .....256	W2YR .....187
K2QPN .....185	K2AX .....236	W2IRT .....137
N2VW .....182	W2YR ..... 213	N2CQ .....128
N2CQ .....181	N2CQ ..... 191	AB2E .....92
AB2E .....156	K2QPN.... 141	K2AX .....86
N1RK .....144	N2VW ..... 133	N2VW .....43
W2YR .....144	K3ND ..... 130	N2WKS .....37
K3ND .....96	K2GN.....129	K3GYS .....30
K2GN.....90	AB2E..... 127	K2QPN .....23
K2AX.....81	K3GYS..... 85	K2GN .....18
N2WKS .....51	N2WKS..... 71	W2CG .....2
W2CG .....38	W2CG ..... 17	
K3GYS .....17		

Still no **KING OF WARC**



**Islands On The Air**

<b>K2FL ..... 1029</b>	K2AX ..... 298
N2SS ..... 876	N2VW ..... 282
W2YC ..... 712	W2YR ..... 271
W8FJ ..... 623	W2IRT ..... 232
N1RK ..... 557	K3GYS ..... 232
WØMHK ..... 432	K2QPN ..... 229
WA3RHW ... 313	AB2E ..... 205



**MOBILE DX**

<b>AA1K ..... 278</b>	K3GYS ..... 143
W2YC ..... 276	WM3L ..... 109
N2SS ..... 234	W2YR ..... 28

Jon continues as our B ig W heel.

**160 Meters**

<b>W3BGN .....306</b>	K3ND..... 137
AA1K .....304	W2IRT ..... 122
WT3Q .....277	N2VW ..... 121
N2LT .....268	N1IBM..... 120
N2TK .....262	K2PS ..... 116
NO2R.....258	W2CG ..... 116
K3SX .....254	K2AX..... 106
W8FJ .....236	AB2E ..... 100
K3JIG .....230	K2GN..... 100
W2UP .....222	W2YR ..... 92
W2YC .....222	KQ3F ..... 88
N2MM .....195	N2SS ..... 82
K3SWZ.....180	W2LE ..... 71
WØMHK .....168	K3NL ..... 70
WA2VYA .....162	N1RK ..... 65
K3II .....160	N2WKS ..... 30
N3RS .....156	K2QPN ..... 28
K2FL .....154	K3GYS ..... 12

W3BGN, our ultimate 160 Meter DXer, continues at the **Top of Top Band!**



**DIGITAL**

<b>W2UP.....342</b>	K2QPN ..... 136
N2LT .....339	W2YR ..... 132
K3SWZ.....328	K2GN..... 117
W3KB .....315	W2CG ..... 91
K2PS .....303	N2SS ..... 87
W2YC .....303	WA2VYA ..... 84
KQ3F .....208	N2WKS ..... 55
W2IRT .....206	W3BGN ..... 48
N2TK .....197	N1RK ..... 39
N2CQ .....188	K3GYS ..... 15
W2LE .....171	W8FJ..... 12
N1IBM.....144	

**Rules for FRC Honor Roll Listings.**

DXCC Challenge is CONFIRMED total ACTIVE (no deleted) on 160-6 excl 60 Meters per ARRL rules. For all others provide me with your total IOTA's 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.



**1.5K Club**

<b>K2FL..... 1726</b>	<b>W2CG .....1504</b>
<b>W3BGN .... 1715</b>	<b>KQ3F .....1501</b>
<b>N2TK..... 1705</b>	WA2VYA...1499
<b>N2LT..... 1703</b>	K3II .....1449
<b>W2UP ..... 1685</b>	N2VW .....1334
<b>N3RS..... 1645</b>	N1IBM.....1258
<b>W8FJ ..... 1619</b>	N1RK.....1312
<b>W2YC ..... 1616</b>	W2LE .....1225
<b>N3RD..... 1588</b>	AB2E .....1185
<b>N2MM ..... 1559</b>	W2YR.....1170
<b>NO2R..... 1556</b>	W2IRT .....1163
<b>N2SS ..... 1547</b>	K2AX .....1101
<b>K2PS ..... 1555</b>	K2GN .....1098
<b>K3ND..... 1510</b>	N2WKS .....817
<b>WØMHK... 1509</b>	K2QPN .....781



**ARRL DXCC Challenge**

<b>N2LT.....2984</b>	W2LE .....1864
N2TK..... 2932	W2YR.....1747
W2YC ..... 2811	N2VW .....1664
WØMHK... 2683	K2AX .....1631
WA2VYA .. 2602	W2CG.....1187
K2PS ..... 2394	AB2E .....1104
KQ3F..... 2206	K2GN .....1025
N2SS ..... 1952	N2WKS .....1007
N1IBM ..... 1947	W3KB.....901
N1RK ..... 1941	K2QPN .....809
W2IRT..... 1870	

Low continues in the lead.



**6 METER DXCC**

<b>WØMHK..... 113</b>	WT3Q.....50
N2LT ..... 110	W3BGN .....48
K2PS ..... 109	W2LE .....46
AA1K ..... 100	K2GN .....43
K300 ..... 95	N1IBM.....34
WA2VYA ..... 88	K2AX .....21
K3SX ..... 75	N2MM .....21
W2YC ..... 69	K2QPN .....10
N1RK ..... 57	K3GYS .....10
N2SS ..... 55	W2CG.....5
N2TK..... 54	N2WKS .....2
W2YR ..... 50	



# THE FRANKFORD RADIO CLUB NEWSLETTER

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



Affiliated Club

## The Frankford Radio Club

### Club Officers

President, **W8FJ**, John Schrader.....610-279-6097  
Vice Pres, **K2UT**, Bob Applegate.....609-714-9359  
Secretary, **N3ZA**, Moe Mosheim, Jr.....215-256-4004  
Treasurer, **KQ2M**, Bob Shohet.....203-270-8456

Email: w8fj@aol.com  
Email: bob@applegate.org  
Email: n3za@comcast.net  
Email: kq2m@earthlink.net

### Committee Chairman

Repeater, **K3NL**, Nick Leipold ..... 610-449-8910  
Packet, **N3RD**, Dave Hawes ..... 610-935-2684  
Activities, **N3AD**, Alan Donziger .....610-581-7032  
Awards, **K2QM**, Dan Marlow ..... 609-683-5633  
Membership

### Newsletter & Roster

Editor, **KQ3F**, Joe Stepansky ..... 717-657-9792  
Printing, **N3ZA**, Moe Mosheim, Jr... ..215-256-4004

Email: kq3f@comcast.net  
Email: n3za@comcast.net

**Repeater** - 2 meters, 147.27/147.87 Input and 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 various locations in the Philadelphia area. The next meeting is at 7:30 PM on September 8 at the Free Library in Richboro, PA (see page 2). Summer meetings are held at member homes (one Saturday/Sunday per month).

### Packet Cluster Contest/DX System

144.950 K3ZV  
145.050 W3TUA  
145.530 AA1K  
145.530 K3WW  
145.570 WT3Q  
145.670 W3PP

### Telnet DX Cluster

k2ut.gofrc.org  
k3ww.gofrc.org 7300  
wt3q.gofrc.org 7300  
tuacluster.no-ip.org:23