



THE FRANKFORD RADIO CLUB NEWSLETTER

PROFICIENCY THROUGH COMPETITION

CALENDAR

February 2009:

- 7 North American Sprint, CW
- 7-8 Delaware QSO Party
- 10 FRC Main Meeting, 8 PM**
- 14 North American Sprint, SSB
- 14-15 CQWW WPX RTTY
- 19 T.I.T.S. Meeting, Noon**
- 21-22 ARRL DX Test, CW**
- 27 Remy Meeting B, 8 PM**
- 28-1 CQWW 160 M Contest, SSB
- 28-1 No. Amer. QSO Party, RTTY

March 2009:

- 7-8 ARRL DX Test, SSB**
- 10 FRC Main Meeting, 8 PM**
- 19 T.I.T.S. Meeting, Noon**
- 21-22 Russian DX Contest
- 27 Remy Meeting B, 8 PM**
- 28-29 CQWW WPX Test, SSB

CHANGES

New members

W3KB

Keith Beebe
108 April Dr.
Camp Hill, PA
717 761 5335
w3kb@arrl.net

Address Change

NA2U

1247 E. Victor Hugo Avenue
Phoenix AZ 85022
Phone: 602-942-0484

Deadline for March issue:

Tuesday, February 24, 2009

President's Column

Greetings to you all. It was great working many of you in the CQWW 160M contest. Condx were superb, and those of you who were not active missed a real treat.

I hope everyone is all set up and ready to go for the upcoming ARRL Contest weekends. The CW weekend is the weekend of February 21st. There is still some time left for preparations, but that time is running out.

In an effort to move the regular monthly meeting site around to make it easier for people in different locals to attend a meeting, **the February Meeting will be held in New Jersey at Remy's on Tuesday, February 10th.** There will be a short business meeting at 8 pm. Plan to arrive an hour or so early to get something to eat and drink and to share some chat time with friends. I will post info about finding your way to Remy's in an email message to the **FRC** reflector next week. I look forward to seeing many of you there.

Go FRC!

73, John W8FJ

New Main Meeting Location

Remy's, 700 Black Horse Pike Mt Ephraim, NJ 08059.
Tuesday, February 10 at 8 PM (7 PM for socializing)



ARRL DX Test, CW FRC DXpeditions

J7N by **K3TEJ**

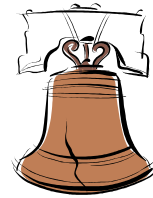
KP2/K3MD by **K3MD**

Any others? Please post to the FRC reflector and the FRC web site.

MEETINGS

Main Meeting

The next meeting will be on Tuesday, February 10 at 7 PM (for socializing, 8 PM for the meeting) at Rexy's. The address is **700 Black Horse Pike Mt Ephraim, NJ 08059**. Coming from Pennsylvania, take the Route 168 South exit off the Walt Whitman Bridge. After you reach Route 168 South, Rexy's is about 3/4 mile on the right - less than 2 minutes off the bridge.



T.I.T.S. meeting—The Trexlertown International Transmitting Society meets on Thursday, February 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 Tuesday, February 24.

FRC Operating Achievements

New CQWW Claimed Records

Bob, **KQ2M** is claiming a new CQWW CW US 20 Meter Unassisted record. This in addition to Bob's CQWW SSB claimed record in the same category. At the bottom of the sunspot cycle!

ARRL Triple Play WAS Award Winners

Three **FRCers** have taken three of the early awards for the ARRL's Triple Play WAS Award. This new award is available to all amateurs who confirm contacts with each of the 50 states using three modes for each state: CW, phone and RTTY/digital. All 150 contacts must be made on or after the starting date and must be confirmed via Logbook of the World (LoTW)

1. Dave Strout, **W2YC**
- 13 Ray Sokola, **K9RS**
- 21 Keith Beebe, **W3KB**



3 Element Tribander 4 Sale Mosley Classic 33 (CL-33-M) for sale.

BRAND NEW IN THE BOX!! Never put together. Always stored indoor. Property of the widow of a local ham.

List price \$693. Asking \$300 - less than half price. I would like to get the money to the widow and get the antenna out from under foot. Can deliver in the local area or meet you part way.

73, Bob Nelson K2QPN k2qpn@arri.net

Reprinted with permission from the December 24, 2008 ARRL Contest Update

One of the hottest events at the Dayton Hamvention will be [Contest University 2009](#). CTU is held on Thursday (May 14) before the main Hamvention. Registration for this rave-review-program is now open! Last year's instructor team mustered more than 300 years of experience and the CTU staff is gearing up for another great set of seminars. CTU President, Tim K3LR, thanks flagship sponsor, Icom America, for their support again in 2009 along with CQ Magazine, DX Engineering, Comtek Systems, Dave W9ZRX, SuperBertha, and QTH.com.

The rules for the [2009 CQ WPX Contest](#) are now available. Scoring is still the same, but there are changes to administrative and operating rules:

- Revised terms of competition (power, self-spotting, etc)
- Operator category names now match those of CQ WW where applicable
- Use of CW Skimmer places an operator in the Assisted or Multi-Operator category
- Tribander-and-Wires and Rookie categories only apply to Single-Op High- and Low-Power
- Club competition and disqualification criteria are now aligned with the CQ WW contest
- Log submission instructions have been clarified for Multi-op and Single-band entries
- US stations are required to include the Cabrillo LOCATION: tag in the submitted log
- The entry declaration permits the submitted log to be made public

(Thanks, Randy Thompson, K5ZD, Director - CQ WPX Contest)

The [IARU HST \(High Speed Telegraphy\) Competition 2009](#) will take place during Sept 2009 in Obzor, Bulgaria, a town on the Black Sea coast. The competition includes copying random code groups, sending random code groups, RUFZ, and Morserunner. (Thanks, Barry **W2UP**)

Array Solutions is offering a new product for amplifier owners tired of wearing out relays from full-QSK operation. The [QSK Master](#) uses a fast-switching vacuum relay without the losses of PIN diodes and it works up to 6 meters. Rated at 2500 W, it operates equally well with transistorized or reed-relay PTT switching and has compensation that allows it to work with radios that disable the PTT line before RF output. This prevents hot-switching--a frequent cause of relay failure and key-clicks. Put that old amplifier back in service today!

Steve KG5VK passes word of a neat add-on for Writelog users called [Writelog Friend](#). Put notes in the "Friend File" and when you work them in a contest, up pops the note! You need never be stumped for a name ever again!

Doug KR2Q writes in with news of the new solid-state, 1200-watt [ALS-1300](#) amplifier by Ameritron. The RF deck weighs only 22 lbs and the matching ALS-1300SPS 50-volt switching power supply only add another 12 lbs. This carry-on-sized and lightweight combination would pack quite a punch for contest expeditions and portable operation!

Those of you (us) that get bamboozled by the blizzard of options and settings in the N1MM contest logging software may find help in Pete N4ZR's "Quick Start" guide. It's available via a link right at the top of the [N1MM Web site](#) and will definitely cut down on those "what did I just do?" moments common with any powerful piece of software. (Thanks, Steve N2IC)

The recent ice storm in New England has caused a lot of damage to amateur installations from New York to Maine. Well-known stations such as KC1XX, K1TTT, and K0TV have all lost a lot of aluminum. Many smaller stations have also been hit pretty hard. A "kolkutin" (loosely - "clanger") is used by the Finns to knock ice off booms and elements. This [Web page](#) shows how Jari OH8LQ built his model--pull on the rope and "Clang!", down comes the ice!

Reprinted with permission from the December 24, 2008 ARRL Contest Update

Randy K5ZD was looking for an audio splitter that could boost or cut audio levels to balance his headphone and sound card input volume. The [Behringer HA400](#) turned out to be his choice. Even with all the RF of a high-power contest station, there were no RFI problems. Randy says, "The output sounded clean and no different than what comes out of the radio. It is a great solution for any time you want to have multiple people listen to audio and each have their own volume control."

Reprinted with permission from the January 7, 2009 ARRL Contest Update

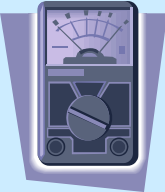
Antenna system builders will want to look over a pair of new products from [Array Solutions](#). The [Bias-T MASTER](#) is a 1.8-54 MHz stand-alone weatherproof unit that permits the application or extraction of dc power and control voltages of up to 1.5 amps via your coaxial cable feed line. That eliminates the requirement for and expense of an extra dc power cable. The Bias-T MASTER can be used for remote powering of remote RF switches, mast-mounted preamps or remote-mounted autotuners. It easily handles full legal limit power. For the lower-current needs of mast-mounted preamps or other low current devices, the Array Solutions Bias-T PLUS (on the same Web page) is rated at up to 400 mA of dc current and full legal RF power from 1.8 - 148 MHz. (Thanks, Jay WX0B)

Tom K1KI alerts us that after many years of providing free Web hosting and other services to hams, Al K3TKJ is bowing out of [QSL.net](#). (Thanks, Al!) The site is moving to Scott KA9FOX's [QTH.com](#) Web site. (Thanks, Scott!) From one Q-signal to another...how apropos!

Since it's more likely that we'll be reading about sunspots in 2009 rather than experiencing them, here's an article about the [current sunspot drought](#). (Thanks, Mark K6UFO)

Glen K9STH reminds us of an old and useful shack junk box trick, if you need some well-insulated wire to carry high-voltage power, remove the jacket and shield braid from some RG8/U or RG213/U coaxial cable. These cables have a voltage rating of several thousand volts. Do not use cable with a foamed center insulation as that material is susceptible to nicks and crimps and moisture ingress, lowering its insulating properties.

Dimmer switches--more accurately, dimmer controls--can be an awful source of RFI. There are models available with RFI suppression, though. When shopping at the hardware store, read the box carefully and be sure to select one with the filtering. Freedom from interference is well worth the additional cost (up to a 50 percent premium). (Thanks, Bob N2SCJ)



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

<http://www.lz1jz.com>



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Where Is Solar Cycle 24 Headed?

by Carl Luetzelschwab K9LA

There are more than 50 predictions for Cycle 24 in the scientific community. These predictions are based on a variety of models (precursor, neural network, spectral, and others), and range from a low smoothed sunspot number of 40 to a high smoothed sunspot number of 185. With so many predictions, it's obvious that our understanding of the physical processes in the Sun that make solar cycles is lacking. Hopefully scientists will gain additional knowledge when Cycle 24 is over to better forecast future cycles.

But before we even think about where Cycle 24 is headed, we need to emerge from the current solar minimum period. Looking at all historical data tells us that the average duration at solar minimum (based on my definition of the number of months when the smoothed sunspot number is below 20) is around 37 months.

Another interesting fact that comes out of the historical data is the correlation between the length of the solar minimum period and the maximum smoothed sunspot number of the next cycle. It shows a trend of smaller cycles following longer solar minimum periods.

If this solar minimum period ends up around the average of 37 months (where it appears to be headed), then it suggests that Cycle 24 is headed towards being an average (or even below average) cycle. This certainly contradicts the very high smoothed sunspot number predictions made by several scientists (for example, by Dr. Dikpati at The University Corporation of Atmospheric Research). But note that we only have 22 data points, which is a very small sample of a process that has likely been going on for thousands of years. So anything could happen - we'll just have to wait and see what Cycle 24 does.

Reprinted with permission from the January 21, 2009 ARRL Contest Update

The North Coast Contesters are proud to announce the 17th Annual Dayton Contest Dinner! [2009 Contest Dinner tickets](#) are on sale now exclusively via the Web again this year, thanks to Scott KA9FOX and QTH.com. The Contest Dinner will be held on Saturday night, May 16, 2009 at 6:30 PM in the Van Cleve Ballroom of the Crowne Plaza Hotel at 5th and Jefferson Streets (next to the Convention Center) in Dayton, Ohio. (Thanks, Tim K3LR)

Speaking of the 160, while amateur allocations on Top Band are becoming wider and more uniform, there is still a lot of variation around the world. Jeff K8ND has prepared a [table of 160 meter amateur allocations](#) for download and handy reference in the contest this coming weekend.

EI8IC's unique (and free) Contest Log Mapping Tool, [LogView](#), has just been updated with the results of 35 new contests. It works from an online database of about 970,000 W/VE call signs past and present to plot the QSOs in a Cabrillo-format contest-log on one of eight different maps of North America. You can step through the log manually, or animate the contest at a range of speeds and watch QSOs build up. Each spot can be annotated with a call sign label, and you can keep a running check of multipliers worked with position-distance-bearing information for each QSO. All the maps you create can be saved for offline viewing and detailed future analysis. (Thanks, Tim EI8IC)

The use of braided strap as an RF grounding conductor has largely been discontinued by commercial and military station builders, particularly outside. How come? Frank W3LPL answers the question, "Braid works well when it's under pressure and protected from corrosion, for example in coax cable where it's under pressure and protected by the jacket. It's fine for dc, as well, because there's no RF skin effect. However, braid is a poor performer for indoor RF applications and an extremely bad performer outdoors because the skin effect forces the RF to jump from wire to wire each time at each braided overlap. The joints aren't under pressure, so the quality of the connections is poor. Outdoors the joints corrode and the connections are terrible. In both cases the resistance of the braid joints is poor. So, for RF connections use copper wire or strap. You can use stainless steel as a buffer between copper and galvanize to avoid galvanic action (except in a salt spray environment)."

Laura L. Smith Named to Amateur Radio Enforcement Role

Laura L. Smith of Pennsylvania has been named by the FCC to fill the vacancy created when Riley Hollingsworth, K4ZDH, retired in 2008 as Special Counsel for the Spectrum Enforcement Division of the FCC's Enforcement Bureau. Hollingsworth served in that position for more than 10 years as the FCC's enforcement watchdog over the Amateur Radio Service.

A 1990 graduate of the Pepperdine University School of Law, Smith began her legal career with the FCC, working in the Mass Media Bureau and Wireless Telecommunications Bureau. She also served as Deputy Division Chief of the Public Safety and Private Wireless Division. Smith is currently licensed to practice in the Commonwealth of Virginia.

In 1998, Smith left the FCC to become Executive Director of Governmental Affairs for the Industrial Telecommunications Association (ITA), now Enterprise Wireless Alliance. In that role, she monitored FCC and legislative proceedings and participated in all regulatory proceedings relevant to the private wireless industry. In 2001, Smith became ITA's President and Chief Executive Officer. While in that position, she was instrumental in the formation of the Consensus Group, a group of public safety and private wireless entities responsible for drafting the "Consensus Plan," a proposed resolution for interference in the 800 MHz band; this was adopted by the FCC in 2004.

Smith returns to the FCC after serving Of Counsel with the Maryland law firm of Shulman Rogers. While there, she dealt with telecommunications matters and provided counsel to numerous entities in the private radio and public safety communities. Smith has served as an industry consultant and written columns for a variety of trade publications including Mobile Radio Technology Magazine and The Private Wireless Magazine.

In an October 2008 letter to then-FCC Chairman Kevin Martin, ARRL President Joel Harrison, W5ZN, urged Martin to name a successor to Hollingsworth: "The appointment of a replacement Special Counsel in this position is of critical importance to the Amateur Radio Service, as the delay in finalizing the appointment stands to undermine in very short order an exceptionally successful and low-cost program of enforcement in the Amateur Service."

Calling the FCC's Amateur Radio enforcement program "spectacularly successful," Harrison reminded Martin of the "long period in the late 1980s and 1990s during which the Commission was essentially uninvolved in enforcement in the Amateur Service. The Amateur Service, consisting of some 680,000 licensees of the Commission, is in essence a self-regulating service; however, due to the shared frequency allocations in the Service and the long distance propagation of amateur communications, a very few rule violators can cause severe disruption in the Service. On the other hand, even a minimal Commission presence has a very strong deterrent value."

When Hollingsworth was appointed as Special Counsel for Amateur Radio Enforcement, Harrison said that Hollingsworth "established a visible presence in the Service and very quickly, and with very little investment of Commission resources, using little more than the awareness of an enforcement presence, created strong deterrence against rule violations."

Upon learning of Smith's move to the Amateur Radio enforcement role, Harrison remarked that he was "very pleased to see the Commission move forward with the hiring of a new Special Counsel responsible for enforcement of the Amateur Radio Service rules," said Harrison. "Ever since Riley Hollingsworth announced his retirement, we have met with the Enforcement Chief numerous times and corresponded with FCC Chairman Martin to ensure this position remains intact at FCC. The Commission acknowledges the self-regulating environment we maintain, but also understands that we need their assistance occasionally to resolve a few situations. They have continually reassured us that this is an important matter for them, and Ms Smith's hiring confirms that."

Desecheo Island DXpedition Granted Call Sign

The DXpedition to Desecheo Island -- February 12-26 -- will use call sign K5D. "As soon as we land on Desecheo, two stations will be immediately activated," said DXpedition co-leader Bob Allphin, K4UEE. Stations will continue to operate until the final moments of departure on February 26." Because Desecheo is very rare, Allphin said that "there are many, many hams worldwide that need KP5 for an all-time new one. Therefore, we are asking that you not contact the DXpedition on any band/mode that you have confirmed from a previous DXpedition. This will allow the people who really need a new DXCC entity a better opportunity to get through the pileups. Our objective is not to establish a world record for contacts. There will be no 'greenies,' no boxes to check, no competitions for most band/mode QSOs, no certificate or awards for contacting the DXpedition more times than anyone else. So if you have KP5 already confirmed on a particular band/mode, we respectfully ask that you exercise restraint. If, late in the DXpedition, we are calling CQ for contacts, we will welcome your call." Desecheo currently sits at number 7 on DX Magazine's Most Wanted list; the island is the second most-wanted DXCC entity in Asia and third most-wanted in Europe. Desecheo is a small uninhabited island in the Mona Passage, 14 miles off the west coast of Puerto Rico. It is part of the US Fish and Wildlife Service's national wildlife refuge system administered by the Caribbean National Wildlife Refuge Complex (CNWR).

Amateur Radio Operations to Begin Again on Midway Atoll

The US Fish and Wildlife Service (USFWS) announced on Monday, January 26 that they would once again allow Amateur Radio operators the opportunity to operate from Midway Atoll. This the first time that USFWS has allowed amateurs to operate from the wildlife refuge since 2002. The USFWS started a program earlier this month to encourage visitors to experience Midway's wildlife, history and culture, as well as non-wildlife-dependent activities -- including Amateur Radio. To ensure the safety of the wildlife on the Refuge, the USFWS said that Amateur Radio operations will be permitted for two weeks only, from October 5-19, 2009. "Radio operation will be allowed only within a designated area on the north side of Sand Island and the use of portable generators will not be permitted," said Midway Atoll Refuge Manager Matt D. Brown.

"There is 120 V power available at the operation site. Any modifications to the island power grid/infrastructure must be approved in advance and be paid for entirely by the radio operators. Although determined to be a wildlife-compatible activity," Brown said, "this [Amateur Radio] opportunity is being conducted on a trial basis." Brown has the authority to discontinue the activity at any time, based on wildlife protection and conservation goals. For more information, please contact Brown via e-mail <Matt_D_Brown@fws.gov> or by phone at 808-954-4818.

Lodging arrangements can be made with Darlene Holst via e-mail <dholst@chugach-ak.com> or by phone at 808-954-4801. Midway Atoll is located in the North Pacific Ocean, approximately 1250 miles northwest of Honolulu.



Contest Season is Here!!!

Work Wanted:

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

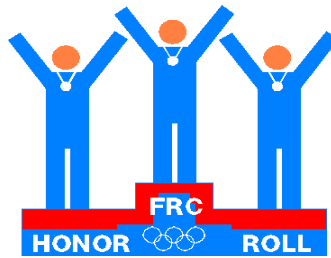
Install/repair/remove antennas, replace feedlines and cabling, rotator servicing, guy wire renewal, new tower installations (guyed and self-supporting), and tower removal.

Reasonable hourly rates and scheduling that meets your needs.

Contact: John Crovelli W2GD

w2gd@hotmail.com

Phone: 908 391 5611 (Mobile)



FEBRUARY

conducted by N2SS

2009

WARC BANDS

| <u>30 Meters</u> | <u>17 Meters</u> | <u>12 Meters</u> |
|--------------------|-------------------|-------------------|
| K2FL .. 337 | K2FL...340 | N2TK ..331 |
| N2TK335 | N2TK 339 | K2FL.....327 |
| N2LT326 | N2LT 337 | N2LT.....323 |
| W3BGN324 | W3BGN ... 333 | W3BGN...317 |
| W2YC314 | N2SS 325 | WØMHK ..313 |
| W8FJ302 | WØMHK.. 323 | N2SS.....303 |
| N2SS298 | W2UP 322 | W2YC.....281 |
| W2UP295 | W2YC 319 | K2PS.....270 |
| K2PS292 | K2PS 312 | W2UP268 |
| WØMHK ..288 | W8FJ 299 | W8FJ.....235 |
| N3RD284 | W2IRT..... 270 | N1RK.....218 |
| W2IRT244 | N1RK..... 261 | K3II.....203 |
| K3II.....234 | W2LE 261 | W2LE202 |
| W2LE.....223 | K3II 256 | W2YR.....187 |
| K2QPN178 | K2AX 236 | W2IRT137 |
| N2VW.....165 | W2YR 213 | W2IRT105 |
| AB2E156 | K2QPN..... 130 | AB2E92 |
| W2YR144 | AB2E..... 127 | K2AX86 |
| N1RK134 | K3ND 127 | N2VW.....35 |
| K3ND91 | N2VW..... 123 | K2QPN22 |
| K2AX81 | K3GYS..... 85 | K3GYS30 |
| W2CG38 | W2CG 17 | W2CG.....2 |
| K3GYS17 | | |

Still looking for that elusive, undisputed **KING OF WARC**



ARRL DXCC Challenge

| | |
|------------------------|-----------------|
| N2LT 2964 | W2LE 1864 |
| N2TK 2925 | W2YR 1747 |
| W2YC 2764 | K2AX 1631 |
| WØMHK ... 2629 | W2CG 1187 |
| K2PS 2394 | AB2E..... 1104 |
| N2SS 1952 | W3KB 871 |
| N1RK 1908 | K2QPN..... 761 |
| W2IRT 1870 | |

Lew continues in the lead.



MOBILE DX

| | |
|-----------------------|----------------|
| AA1K 277 | K3GYS..... 143 |
| W2YC 276 | W2YR 28 |
| N2SS 234 | |

Jon continues as our B ig W heel.

160 Meters

| | |
|-----------------------|-----------------|
| W3BGN305 | K2FL..... 154 |
| AA1K301 | K3ND..... 137 |
| WT3Q275 | W2IRT 122 |
| N2LT264 | K2PS 116 |
| N2TK259 | W2CG 116 |
| NO2R.....258 | K2AX..... 106 |
| K3SX243 | N2VW 103 |
| W8FJ235 | AB2E 100 |
| K3JIG230 | W2YR..... 92 |
| W2UP221 | N2SS 81 |
| W2YC.....211 | W2LE..... 71 |
| K3II160 | K3NL 70 |
| WØMHK158 | N1RK..... 56 |
| N3RS156 | K2QPN 25 |
| | K3GYS 12 |

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



DIGITAL

| | |
|---------------------|-----------------|
| W2UP.....342 | KQ3F 132 |
| N2LT339 | K2QPN 122 |
| W3KB.....314 | W2CG 91 |
| K2PS.....303 | N2SS 65 |
| W2YC.....294 | W3BGN 41 |
| W2IRT.....206 | N1RK..... 39 |
| W2LE171 | K3GYS 15 |
| N2TK.....140 | W8FJ..... 12 |
| W2YR.....132 | |

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

| | |
|------------------------|-----------------------|
| K2FL..... 1726 | K3ND1508 |
| W3BGN 1711 | W2CG1504 |
| N2TK..... 1703 | WØMHK1499 |
| N2LT..... 1703 | K3II1449 |
| W2UP 1685 | N2VW1315 |
| N3RS..... 1638 | N1RK.....1309 |
| W8FJ 1619 | W2LE1225 |
| W2YC 1607 | AB2E1185 |
| N3RD..... 1578 | W2YR.....1170 |
| NO2R..... 1556 | W2 IRT1163 |
| N2SS 1545 | K2AX1101 |
| K2PS 1555 | K2QPN762 |



Islands On The Air

| | |
|-----------------------|----------------|
| K2FL..... 1029 | K2AX298 |
| N2SS 856 | N2VW.....275 |
| W2YC 692 | W2YR.....271 |
| W8FJ 623 | W2IRT.....232 |
| N1RK555 | K3GYS232 |
| WA3RHW... 313 | AB2E205 |
| WØMHK..... 381 | K2QPN200 |



6 METER DXCC

| | |
|----------------------|---------------|
| N2LT..... 110 | WT3Q50 |
| K2PS 109 | W2YC.....47 |
| WØMHK..... 108 | W2LE46 |
| AA1K 100 | N2TK.....29 |
| K30093 | K2AX21 |
| K3SX..... 75 | K3GYS10 |
| N1RK 57 | K2QPN9 |
| N2SS 55 | W3BGN7 |
| W2YR 50 | W2CG.....5 |

N2LT is right back at the top of 6 Meters!



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, **K2QM**, Bob Shohet.....203-270-8456

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Committee Chairman

Repeater, **K3NL**, Nick Leipold 610-449-8910
Packet, **N3RD**, Dave Hawes 610-935-2684
Activities, **N3AD**, Alan Donziger610-581-7032
Awards, **K2QM**, Dan Marlow 609-683-5633
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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

Meetings

Meetings are held on the 2nd Wednesday of each month (Sep through May) at 8 PM at the firehouse at 170 Allendale Road in King of Prussia, PA . 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
tuacluster.no-ip.org:23