



# THE FRANKFORD RADIO CLUB NEWSLETTER

*PROFICIENCY THROUGH COMPETITION*

## CALENDAR

### June 2006:

- 13** **Rexy Meeting B**
- 17-18 All Asian DX Contest, CW
- 15** **T.I.T.S. Meeting, Noon**
- 24-25 ARRL Field Day
- 27** **Rexy Meeting B**
- 30** **FRC Open**

### July 2006:

- 1 RAC Canada Day Contest
- 8-9 IARU HF World Champ.
- 9** **FRC Summer Mtg, N3RD**
- 11** **Rexy Meeting B**
- 15-16 NA QSO Party, RTTY
- 20** **T.I.T.S. Meeting, Noon**
- 25** **Rexy Meeting B**

### August 2006:

- 5-6 No. America QSO Party, CW
- 6** **FRC Summer Mtg, K2AX**
- 12-13 Worked All Europe Test, CW.
- 12-13 MD-DC QSO Party
- 14** **Rexy Meeting B**
- 17** **T.I.T.S. Meeting, Noon**
- 19-20 No. America QSO Party, SSB
- 19-20 New Jersey QSO Party
- 26-27 YO (Romania) DX Test
- 28** **Rexy Meeting B**

## CHANGES

### New Member

**AB2IO**—Michael Moreken

### Deadline for July issue:

Sunday, June 25, 2006

## President's Column

I want to thank all those who contributed to the club over the past contest season. It's always fun to get on and operate a contest and make points for the club. But, there are those who not only make points, but who contribute with the running of the club. All of these people deserve a special thanks and I want to make sure that they get recognized.

I don't know how Charlie, **K3WW**, finds the time to operate with all he does for the club. Joe, **KQ3F**, for all the work putting the newsletter together. Dave, **N3RD** for all the work keeping the packet system running. Dan, **K2QM** for handling all of the club's operating awards. John, **K2FL**, for handling the **FRC** Award, for which we are still getting applications from DX stations.

All of this work that goes on behind the scenes makes the club work and I want to make sure that these members are recognized. Thank you one and all.

I also want to thank all those who, at their own expense, participate in DXpeditions during contests. These members not only make lots of points but also publicize the club to the contest community. Thank you one and all.

There is no meeting scheduled for June, the next meeting will be July 9<sup>th</sup> at Dave, **N3RD**'s home in Phoenixville, PA. The August meeting will be at Mark, **K2AX**'s home in Waterford Works, NJ. I hope to see a lot of members at these meetings.

*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](mailto:w3cf@verizon.net).

**MEETINGS**

**T.I.T.S. meeting**—The Trexlertown International Transmitting Society meets on Thursday, June 15 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.

*Summer Meetings*



**Sunday, July 9—Dave, N3RD, Sponsored by Team N3RS**  
**Sunday, August 6—Mark, K2AX**

**QST QST QST ::: FRC GOLFERS:::**



This year's **FRC OPEN** golf outing will again be held at the Southmoore Golf Club. See [www.southmooregolf.com](http://www.southmooregolf.com) for directions and information about the course. Lunch and a driving range are available at the course. This is the same location it has been held for the past three years.

Date is Friday, June 30, and the first tee time is Noon.

Contact **K300** at [k300@k300.com](mailto:k300@k300.com) if you are planning on attending.

Dinner at the same place as last year after the open.

Anyone interested in stopping by **K300**'s QTH after dinner is welcome to keep the party going.

## 2006 FRC Fund Drive



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

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

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

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

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

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

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

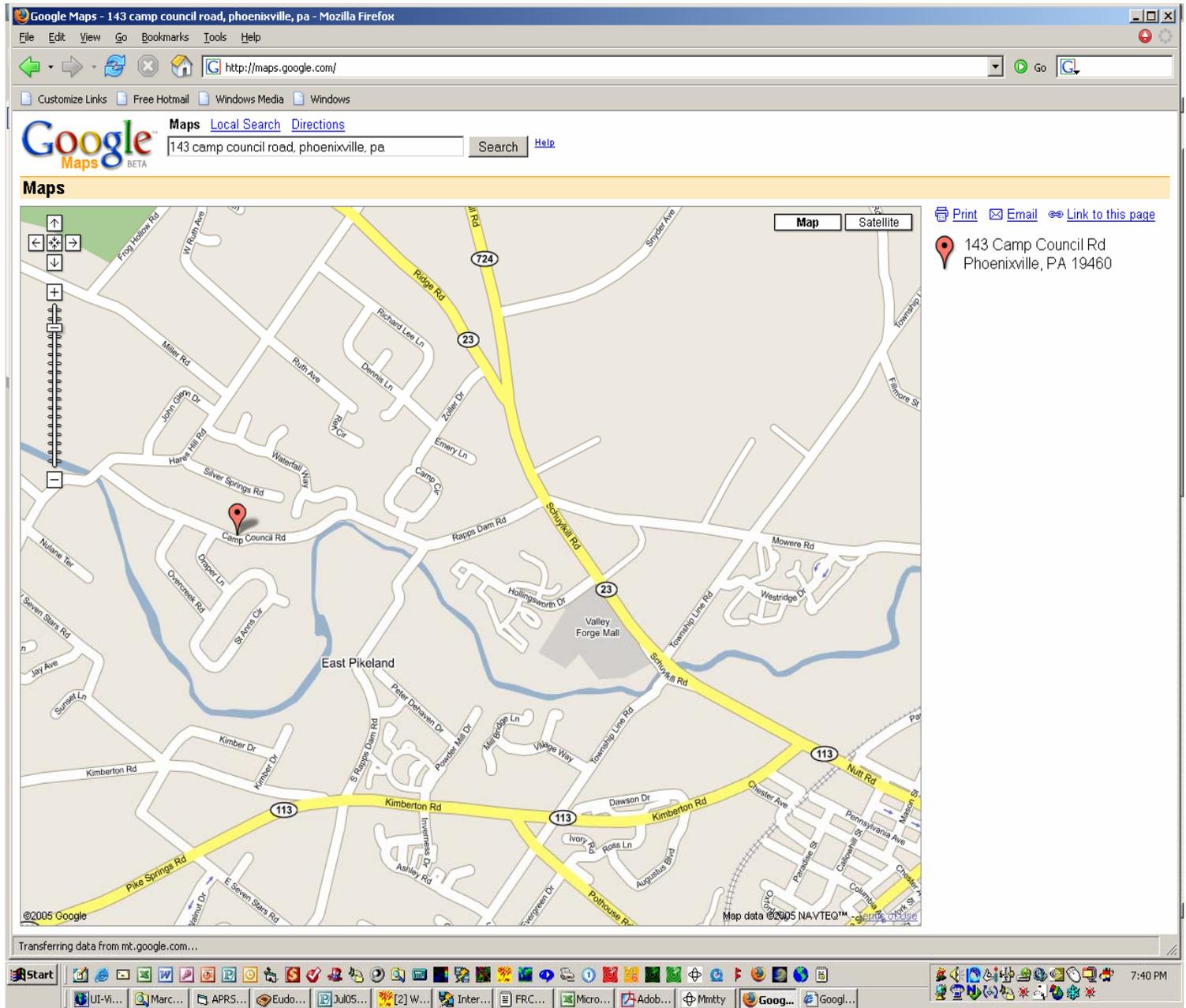


I'd like to say thanks to the membership for all of the encouragement I've received over the past year since I joined **FRC**. Its helped push me to make a number of improvements on my station including a home brewed hexbeam on a short tower. I never dreamed of any sort of directional HF antenna until I retire. But the time and effort for that project has definitely improved my scores for the club and snagged me several new ones.

73 & **GO FRC!**

*Mark - N3GNW*

## Summer Meeting at N3RD—Sunday, July 9



Dave, N3RD, is graciously hosting an FRC meeting on Sunday, July 9 at 1 PM. He asks that you bring a chair for your seating comfort. Dave's address is **143 Camp Council Rd, Phoenixville, PA.**

**From the East:** Take your favorite route (Schuylkill Expressway or PA Turnpike) to Valley Forge, and then proceed on Rt. 23 West toward Phoenixville. Stay on Rt. 23, all the way through Phoenixville, making sure that you stay right and continue straight at the spot where Rt. 113 veers off to the left. After Rt. 113 veers off, turn left at the third traffic light. This will be just after a Burger King on the right. This road is Rapps Dam Road, and in about a third mile, turn right onto Camp Council Road. The driveway is about half a mile on the right, just after a stone retaining wall on the right. Parking will be on the lawn in the back of the house.

**From the South:** Take Rt. 113 north toward Phoenixville. After passing the traffic light at Cold Stream Road, proceed about half a mile and turn left onto Rapps Dam Road. Continue on Rapps Dam until you go through the covered bridge, and then turn right onto Camp Council Road. The driveway is about half a mile on the right, just after a stone retaining wall on the right. Parking will be on the lawn in the back of the house.

**From the West:** Take either Rt. 23 or Rt. 724 east toward Phoenixville. After Rt. 724 ends at the junction of Rt. 23, proceed less than a quarter mile to the traffic light at Rapps Dam Road, and turn right. Follow directions above "From East."

### **BADZHES???...WE NEED THOSE FRC BADZHES**

Bruce, **W2BE**, can provide you with an **FRC** badge for \$7.00. If you're interested, contact Bruce at the following:

Bruce Eichmann, W2BE  
919 Mansion Ave.  
Westmont, NJ 08108  
856-854-8411



Ye olde editor messed up in the May issue. Mark, **K2AX**, notes that, on page 2 of the May newsletter, the August Summer Meeting is mistakenly listed as being held by W2AX. It's been corrected for this issue. Directions will be in the July issue.



#### **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)**

## CONTESTING — TIPS, TECHNIQUES, RESOURCES

### Reprinted with permission from the May 31, 2006 Contest Rate Sheet

Have you heard about the new auto-tune, solid-state amps developed by Elecraft? Most known for their excellent line of QRP rigs, Elecraft has entered the top-of-the-line amplifier market with a pair of Serious Amplifiers. They're available both as kits and as finished products. Watch the Elecraft Web site (<http://www.elecraft.com/>) for details.

We all KNOW we're supposed to do it, but while the spirit may be willing, the flesh is often weak. Thus, this welcome news from Jim AD1C -- "I learned of two new on-line backup services in the past couple of days at <http://www.mozy.com/> and <http://www.carbonite.com/>.

Both services install a small utility that runs in the background to back up your files. Mozy.com provides 2GB of backup space FREE. Carbonite.com provides UNLIMITED backup space for \$5/month (\$60/year). I have been looking into these services for the last year and that's the best deal around." That removes our last excuse!

While Logbook Of the World is the electronic method-of-choice for contact confirmation, there are millions of paper QSLs out there still to be checked. In advertising that card checking will be available at the BRATS Maryland Hamfest in August (<http://www.bratsatv.org/hamfest.html>), Neil W3ZQI reminds me to point you to the ARRL Hamfest Calendar in QST and on the Web at <http://www.arrl.org/hamfests.html>. Plan ahead and take advantage of the card checking services provided by local DXCC Field Checkers and the occasional visit by ARRL HQ card checkers, too.

During this year's antenna-fixin' season, many skyhooks will be given a good cleaning. While steel wool and elbow grease are the traditional "solvents", it has been pointed out by many that Scotch-Brite(tm) pads do the job better than steel wool and leave no tiny steel slivers in the antenna or your skin to rust or itch, respectively. When you put it all back together, don't forget to use the anti-oxidation compound!

Another antenna tip -- if you have two nested sections of tubing that are not coming apart easily, squirt a little penetrating oil (such as Liquid Wrench or Kroil) into any slots or screw holes. Then try to get the inner section turning in one direction. Keep turning it in the same direction as you pull it out. The burrs or obstructions that are binding will wear down or flatten if the direction of turning is consistent. If you need to grip the section with pliers or other mechanical device, insert a wooden dowel first to keep the tube from being deformed.

Brett VR2BG contributes a simple assemble-and-test method for constructing gamma matches:

- 1) Strip sheath & shield off length of RG-8 (start longer than predicted at approximately 20 pF/ft)
- 2) Shove into gamma tube - tube ID should be very close to OD of insulation.
- 3) Gradually trim the length.
- 4) Waterproof both ends of the tubing.

For calculating the expected length, try the calculator program at <http://www.ve3sqb.com/>. (Scroll down to the "for the experimenter" section or do an in-page search for the word "gamma.") The calculator provides spacing, gamma tube length, tap point on the driven element, and insertion length. The app suggests that the gamma tube (outer tube) be 1/4 the driven element size. Tom W8JI has also published info about the gamma match and how length and diameter affect the network. [http://www.w8ji.com/omega\\_and\\_gama\\_matching.htm](http://www.w8ji.com/omega_and_gama_matching.htm). (Thanks, Aaron NN6O)

## CONTESTING — TIPS, TECHNIQUES, RESOURCES

### **Reprinted with permission from the May 17, 2006 Contest Rate Sheet**

Here's an idea that might make putting up Rohn 25 a little less adventurous as the guy sets are installed. "Get a few helpers so you can walk up 30 feet with the guys already on the tower. Secure the guys, then put two more sections on. When you put the 6th section on, have the guys already attached, so you don't have to climb to 60 feet without the 60-foot guys attached. Secure the guys \*before\* you go up to the 60-foot point. Do the same thing at 90. (Thanks, Rex K1HI)

#### **Knocking On The Door**

Hear that sound? It's new hams and potential testers banging on the door to the Kontester's Klubhouse! They're out there -- why don't they come in? In many cases it's because we don't open the door! We're too busy!

Think about those recruitable hams as you mash the F1 button for the umpty-umth time in the coming weekends, wishing for a little more activity. It's purely self-serving, but by encouraging the casual operator to get on the air and in the competition, your own log will likely be a little fuller at the end of the next contest.

We do tend to get a little wrapped up in our own stations and technique. After all, building and maintaining a competition-grade contest station takes a lot of work and time. I don't know of anybody that thinks their station is "done." Nevertheless, it's still important for us to open our niche of Amateur Radio and extend a welcome to other hams that might like to join us.

Recruiting for contesting is a smaller version of the same challenge that exists for ham radio in general, in every country around the world. Not every new recruit will decide to become a Top Gun tester, but some will. Even those that go on to other pursuits will understand more about what contesting is and what drives testers to put up the Big Aluminum in pursuit of the Big Scores.

Regardless of where your ham radio interests lie, I'll bet you were given a helping hand. It's payback time! While you're munching down on the pizza at Dayton this weekend, be sure to say hello to those new faces and include them in your conversations. Maybe you'll gain a new ground crew member! Later on, Field Day provides a golden opportunity to introduce a new ham to HF operating and contesting.

It's time to start planning your GOTA station strategy, isn't it? Remember that you might have to take the initiative. Testers aren't exactly shrinking violets, but before you become part of "the group," it's hard to walk up and join the fun. Be a buddy and recognize the "I want in" look!

Those folks out there won't wait on us forever. Eventually, they'll go off and find something else to do, in ham radio or maybe not. Take the time to put down your latest project and welcome them to a great part of ham radio!

73, Ward N0AX

### **Reprinted with permission from the May 3, 2006 Contest Rate Sheet**

Jim AD1C provides a program called "PASS" that analyzes your log for band-to-band passing. Browse to <http://www.k1ea.com/utilities> and look for "pass.exe". (Thanks, Jim AD1C)

Bob K0RC came across this tutorial when researching tower grounding. It contains a lot of useful information and diagrams of typical grounding systems used in Communication Tower and Power Substation installations: [http://www.leminstruments.com/grounding\\_tutorial/html](http://www.leminstruments.com/grounding_tutorial/html).

### **Revised DXCC Awards Fee Schedule Becomes Effective July 1**

The ARRL DXCC Desk has announced DXCC program fees will rise slightly when a new awards fee schedule <<<http://www.arrl.org/news/stories/2006/05/23/3/fees-06Jul.html>>> goes into effect July 1. The fee for a basic DXCC application (including certificate and pin for initial applications only, 120 QSO maximum) and for first endorsement applications within a year will increase to \$12 for ARRL members and to \$22 for foreign nonmembers. Second and subsequent endorsements (120 QSO maximum) within a year will be \$22 for ARRL members and \$32 for foreign nonmembers. The \$10 fee for a basic DXCC application (120-credit maximum) was established in 1990, and the current overall fee schedule has been in effect since 1998. "It costs us to provide this service," explains ARRL Membership Services Manager Wayne Mills, N7NG. "We don't make any money from DXCC." The cost of other DXCC-related items such as plaques and pins also will go up July 1. Mills advised that DXCC fees will increase further in the years ahead--possibly at two-year intervals--at least to catch up with the Consumer Price Index, which has risen 49 percent since 1990. He estimates the active population of DXCC members at between 15,000 and 18,000.

### **Riley Hollingsworth to Amateur Radio Community: "Lighten Up!"**

FCC Special Counsel for Enforcement Riley Hollingsworth advised those attending the FCC forum at Dayton Hamvention 2006 to try kindness instead of confrontation when problems arise on the bands. Hollingsworth spoke May 20 to a nearly full house at Hara Arena, and for the most part he praised the behavior of the majority of Amateur Radio operators, especially those who volunteered in the aftermath of Hurricane Katrina last year. But, he noted, radio amateurs still could be more courteous and less inclined to fly off the handle at some perceived on-the-air offense.

"You need to lighten up and not embarrass the Amateur Radio Service," Hollingsworth advised. "All of us make mistakes, especially with the new features you have on radios today. It's very easy to make a mistake, to be on the wrong frequency or be operating split and not know it--there's a hundred ways to make mistakes." Hollingsworth said experience has shown him that at least 75 percent of the interference complained about is absolutely unintentional.

In Hollingsworth's view, radio amateurs all too often are hypersensitive and rude. "We have a radar going to detect offenses at all times, we assume the worst in people, we rarely give people the benefit of the doubt," he said. He joked that if there were three amateurs in a town, there would be two Amateur Radio clubs.

"And there'll be two hamfests with 20 people each, because they wouldn't dare consolidate them," he added.

Hollingsworth acknowledged that "certain problem operators" remain, but the real troublemakers are rarely the newcomers to Amateur Radio. "If there's a downfall in Amateur Radio, it won't be caused by no-code Technicians or codeless anything else," he said. "It'll be caused by the microphone--no doubt in my mind." He advised his audience to ignore the troublesome operators and not give them the attention they crave by engaging them on the air.

"Now, think about it: If what you're hearing annoys you, or angers you or is stupid, use the 'stupid filter,' which is that big knob--that VFO that will take you somewhere else," he quipped. "It's the largest knob on the radio." He recommended moving to another frequency or even another band altogether.

Hollingsworth praised the Volunteer Examiner program as "outstanding" and noted there had not been a single complaint in the past year stemming from an examination session. He also said the Amateur Radio community should have a greater appreciation for what the ARRL is doing on its behalf.

"Most of you have no idea how much work is done in Newington for you and the Amateur Radio Service generally," he said. "I see it every day, but I think you have no idea of the hard work and dedication that comes out of that office up there, and I don't think we would be there if it weren't for [the League]."

"This country's communications infrastructure needs Amateur Radio," Hollingsworth emphasized, praising Amateur Radio's overall performance following Hurricane Katrina. "You have a tremendous amount to be proud of."

He also suggested that radio amateurs have an obligation to stay informed about what's going on in Amateur Radio that might affect their activities.

"You have to not only keep up, you have to lead the way, because it's in your charter," he said, pointing to §97.1 of the Amateur Service rules. Hollingsworth noted at the start of his talk that he could not address any questions dealing with the FCC's long-awaited decision on the Morse code requirement (Element 1), because he works in the Commission's Enforcement Bureau. "We don't meddle in rule making," he explained, but added that he didn't expect CW to decline if the FCC does drop the 5 WPM Morse requirement for all Amateur Radio license classes as it's proposed to do.

### **Oregon Radio Amateur Dies in Tower Mishap**

Well-known DXer Ron J. Spears, W7IX, of Klamath Falls, Oregon, died May 14 when an Amateur Radio tower he was working on in Northern California broke and toppled. He was 44. News accounts say Spears, an ARRL DXCC Honor Roll member (CW), was attempting to retrieve a 40-meter beam from atop a 170-foot tower near MacDoel, California, when the structure collapsed and fell to the ground with Spears still attached by his safety belt. He was pronounced dead at the scene. His father, Aubrey, was assisting on the ground and witnessed the accident.

Spears had built the tower for its previous owner, Ray Balch, K6VX (SK), and used to do all of Balch's antenna work, so he had prior experience working on the structure. According to his father, Spears had first inspected the tower for safety. Spears earlier had bought the antenna from the current property owner and was attempting to bring it down in pieces. The heavy-duty support structure broke as Spears was about 10 feet from the top.

One unofficial report says that when Spears removed the antenna, it slipped and struck one of the top guy wires, starting the tower swaying until the guy broke. Another account says the beam "got away from" Spears and its huge boom struck and broke the tower guy. All but the lower 40 feet of the structure reportedly fell.

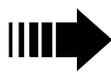
### **Position Opening at ARRL Headquarters:**

ARRL is seeking a qualified radio amateur to fill the position of Contest Branch Manager within the Membership Services Department. This is a full-time position at ARRL Headquarters in Newington, Connecticut. This individual will manage all activities of the Contest Branch, including employee supervision and volunteer coordination.

Primary responsibilities include promotion and encouragement of Amateur Radio contest activity, receiving and processing contest logs, writing and preparing articles about contesting activity for ARRL publications, preparing results of ARRL contests for publication and Web posting, assisting in budget preparation and providing a high level of customer service. Candidates must have a college degree or equivalent and an Amateur Radio license and be very familiar with ARRL's contest program (preference will be given to applicants with considerable personal contesting experience). Other requirements include solid interpersonal, writing and speaking skills; familiarity with the DXCC program and with ARRL sections and divisions, knowledge of the Microsoft Office software suite, and strong attention to detail. As a representative of the ARRL, the Contest Branch Manager may need to undertake some weekday and weekend travel. ARRL is an equal opportunity employer. Send a resume and cover letter to LouAnn Campanello, ARRL, 225 Main St, Newington, CT 06111 or via e-mail <lcampanello@arrl.org>. ARRL is an Equal Opportunity Employer.

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





***Notes From  
Your Editor***

Once again another Dayton has come and gone. I made the pilgrimage out again for my 12<sup>th</sup> consecutive year. And, as my wife now needs round the clock care, planning and coordinating coverage here at the house is as challenging as planning a Dxpedition. I'm happy to report the planning was successful and I had a great time at Dayton.

**DAYTON 2006**



Our Thursday afternoon "Welcome to Dayton" – looking out over the Hampton Inn it was sheeting down rain. You're in Dayton, so what do you expect?! Actually, the rain stopped rather quickly on Thursday and from then on the weather was just fine.



A little imbibing while getting ready for those steaks to be served at the annual Thursday nite get-together dinner at the Barnsider. From the left: Tony, W2WAS; Jack, N2VW; Mark, K2AX; Joe, KC2TN; Alan,

N3AD; Dave, N3RD; Georgia, XYL and George, W2VJN; John, WE3C; Paul, N2FOB; Steve, K2SB; Ed, N3ED and Tom, N2SR.



Here's a guy guaranteed to be in your log: longtime contester and DXer Toshi, JA1ELY. Here I am with him outside the Miami Room.



Your DX newsletter editor at the RSGB booth renewing acquaintances and my membership. The Radio Society of Great Britain is a terrific organization and their monthly magazine, RadCom, is in my view the best of all amateur radio monthlies.



Tony, W2WAS and Jack, N2VW visiting with Jody, VP5JM in the NJDXA hospitality suite and making

plans for their big Fall contest Dxpedition

**CURRENT OFFICIAL ARRL  
DXCC STATISTICS**

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

**SU -EGYPT**

From Mike, KA2AEV, comes the following: Said, SU1SK, will be operating from Norus Island in the Matruh Region group, Mediterranean Sea, AF-099 from Jun 20<sup>th</sup> to Jul 1<sup>st</sup>. He will sign as SU8IOTA and all operating must be done during his daylight only. Activity will be on 20, 15 and 17 Meters SSB and CW. Check [www.qrz.com/su8iota](http://www.qrz.com/su8iota) and [www.qsl.net/su1sk/page2.htm](http://www.qsl.net/su1sk/page2.htm) for the latest news. QSL direct to:

Said Kamel  
 P.O. Box 190  
 New Ramsis Center  
 Cairo 11794 EGYPT

**DX ALERT LEGEND**

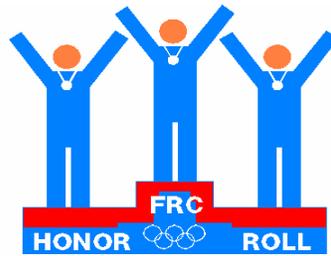
- 160 METER ALERT
- IOTA ALERT
- RTTY ALERT
- WARC BAND ALERT

**"S"pecial "S"alute**  
 "S" "S" this month to KA2AEV. Have you made your contribution yet? Contribute to your Newsletter and get the "S" "S".

©

**73, Tony N2SS**

You can reach me as follows:  
 H:856-227-4896 C:609-221-4899  
[n2ss@n2ss.com](mailto:n2ss@n2ss.com)  
[argargano@comcast.net](mailto:argargano@comcast.net)



**JUNE**

**CONDUCTED by N2SS**

**2006**

**WARC BANDS**

<u>30 Meters</u>	<u>17 Meters</u>	<u>12 Meters</u>
<b>K2FL .. 332</b>	<b>K2FL...336</b>	<b>N2TK ..328</b>
N2TK .....329	N2TK ..... 335	K2FL..... 326
N2LT .....318	N2LT ..... 332	N2LT..... 321
W3BGN ....317	W3CF ..... 331	W3BGN ... 314
W2YC .....301	W3BGN ... 329	W3CF ..... 303
N2SS .....290	N2SS ..... 320	N2SS..... 302
W8FJ .....290	W2UP ..... 312	W2YC ..... 274
K2PS .....284	W2YC ..... 304	K2PS..... 268
W2UP .....277	K2PS ..... 303	W2UP ..... 259
N3RD .....258	W8FJ ..... 291	W8FJ ..... 228
N2MM .....233	N2MM..... 268	N1RK ..... 218
K3II .....232	N1RK ..... 253	KQ3F ..... 217
W2LE .....220	KQ3F ..... 252	K3II ..... 203
KQ3F .....195	K3II ..... 245	N3KN ..... 191
AA2WN....174	W2LE ..... 231	W2LE ..... 191
W2RQ .....144	W2YR ..... 202	W2YR ..... 187
AB2E .....132	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 .....294</b>	W2RQ ..... 123
AA1K .....289	K2PS ..... 106
WT3Q .....261	W2CG ..... 95
N2TK .....250	AB2E ..... 94
N2LT .....248	N2VW ..... 85
K3SX .....233	W2YR ..... 81
NO2R .....226	N2SS ..... 79
W8FJ .....213	W3CF ..... 77
W2UP .....200	K3NL ..... 70
K3JIG .....200	K3CT ..... 63
W2YC .....185	KQ3F ..... 57
N2MM .....182	N1RK ..... 51
K3NM .....156	AA2WN ..... 50
N3RS .....156	N3KN ..... 34
K3II .....149	W2LE ..... 28
K2FL .....143	K3GYS ..... 12
K3ND .....136	

W3BGN continues as the undisputed Top of Top Band.

**Digital**

<b>W2UP .....338</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 .....272	AA2WN ..... 131
N2SS .....234	W2YR ..... 28



**1.5K Club**

<b>K2FL..... 1709</b>	<b>N2SS.....1521</b>
<b>W3BGN .... 1697</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..... 1611</b>	N1RK.....1289
<b>W8FJ ..... 1594</b>	N2VW .....1270
<b>K3II ..... 1573</b>	K3CT .....1229
<b>W2YC ..... 1561</b>	W2LE .....1175
<b>N3RD ..... 1539</b>	W2YR.....1153
<b>NO2R..... 1536</b>	N3KN .....1120
<b>K2PS ..... 1524</b>	K3NM.....1107
<b>N2MM ..... 1524</b>	AB2E .....1164



**Islands On The Air**

<b>K2FL..... 1004</b>	N2VW .....261
N2SS ..... 829	W3CF .....253
W2YC ..... 627	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

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Activities, **N3AD**, Alan Donziger .....610-581-7032  
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Printing, **W2RDS**, Rick Stoneking..... 609-265-0885

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  
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