



# THE FRANKFORD RADIO CLUB NEWSLETTER

*PROFICIENCY THROUGH COMPETITION*

## CALENDAR

### June 2005:

- 14**    **Rexy Meeting B**
- 16**    **T.I.T.S. Meeting, Noon**
- 18-19   All Asian DX Contest, CW
- 25-26   ARRL Field Day
- 28**    **Rexy Meeting B**

### July 2005:

- 1        RAC Canada Day Contest
- 9-10    IARU HF World Championship
- 10**    **FRC Summer Mtg, N3RD**
- 12**    **Rexy Meeting B**
- 21**    **T.I.T.S. Meeting, Noon**
- 26**    **Rexy Meeting B**

### August 2005:

- 6-7     North Amer. QSO Party, CW
- 9**     **Rexy Meeting B**
- 13-14   Worked All Europe Test, CW
- 13-14   MD-DC QSO Party
- 18**    **T.I.T.S. Meeting, Noon**
- 20-21   North Amer. QSO Party, SSB
- 20-21   New Jersey QSO Party
- 23**    **Rexy Meeting B**
- 27-28   YO HF DX Contest

## CHANGES

**W4AA**—Art Wildblood

New email: artw4aa@bellsouth.net

New cell phone: (904) 501-1440

**K3ZV**—John Lindmeier

New email: k3zv@hotmail.com

### Deadline for July issue:

Sunday, June 26, 2005

## President's Column

I just had 17 trees taken down on my lot and as a result all of my antennas are on the ground. This is not good for a contester just a few days before the WPX CW contest. But, now that a lot more trees are out of the way, I am planning on getting my antennas up higher than before which will help as conditions continue to deteriorate.

I am also planning on doing some antenna work at **N3AD's** over the summer to get some gain on the low bands and make the station more competitive. I am really looking forward to Sig, **N3RS**, and Dave, **N3RD's** presentation at the September meeting on station automation to get information on what I can do to improve my station and Alan's for the fall season. Alex, **W2OX**, will be doing a presentation at the October meeting on DX contesting preparation from a DX perspective.

I'd like to see some information from members on the reflector of any plans for summertime station improvements. Maybe some of them can be turned into presentations at future meetings.

There will not be a meeting this month. **In July, Dave, N3RD, will have a meeting at his QTH in Phoenixville, Pa. on Sunday, July 10<sup>th</sup>.** I hope to see a lot of members and maybe some non-members there. We will be raffling off the MFJ 259 antenna analyzer from Ben Righter's estate at the meeting. The remainder of Ben's equipment will be raffled at future meetings.

I will be scheduling a policy committee meeting in June to go over the budget for the year and discuss other topics of interest to the club. The date and location will be posted on the reflector. All interested members are invited to attend.

*73 – John – K3ZV*

## Call for Authors

Do you have a tip, technique, procedure, etc., that can help other **FRC** members improve their scores? Just want to expound on some ham radio topic or other? Your editor encourages any and all **FRCers** to come forward. No prior experience necessary. Editor is kind and gentle, especially with new authors. You come up with the idea, I'll worry about "pretty".

*73, Joe KQ3F*

**MEETINGS**

**Main Meeting in Philadelphia**

**RETURNS ON SEPTEMBER 13**

**Program:** Station Automation by Sig, N3RS and Dave, N3RD



**T.I.T.S. meeting**—The Trexlertown International Transmitting Society meets on Thursday, June 16 at 12:00 noon. Location is the Hometown Diner on Route 222 in Trexlertown..

**Rexy Meeting B**—The Rexy's FRC Meeting B meets about 8 PM on the second and fourth Tuesdays of each month.

**Art Gagnon, K2JLA, SK**

Art Gagnon, K2JLA, long time FRC member has passed away on May 11th. Art lived in Riverton, NJ.

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*Summer Meetings*



**Sunday, July 10—Dave Hawes, N3RD 1PM (Directions in the July issue)**

**We need volunteers for June and August!!!!**



**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 two years.

Date is Tuesday, June 21, and the first tee time is high Noon.

Contact me at [k3oo@k3oo.com](mailto:k3oo@k3oo.com) by Friday, June 3 if you are planning on attending.

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

Anyone interested in stopping by my QTH after dinner is welcome to keep the party going.

## 2005 FRC Fund Drive

This is probably a good time for a few reminders when getting ready to make your annual contribution to help keep our club running...

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

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.

Thanks for listening and for your contributions!

### Contributors to Date

AA2WN	K3CP	K3ZV	N3KN	W2RDS	W8FJ
AA3B	K3CT	KB3MM	N3KR	W2REH	WB3CIW
AD3Z	K3II	KC3WX	N3NR	W2UDT	WE3C
K2FL	K3JGJ	KQ2M	N3ZA	W2YC	WT2V
K2GN	K3ND	KQ3F	N9GG	W2YR	
K2OWE	K3NZ	N1RK	NO2R	W3AP	
K2PS	K300/K3000	N2LT	NW3Y	W3BGN	
K2QM	K3PH	N2VW	W2GD	W3FV	
K2UT	K3TEJ	N3DXX	W2LE	W3MM/W3RAT	

### 2005 CQ WPX SSB FRC Claimed Scores

Call	QSOs	Prefixes	Score	Class
AA3B	646	384	595,200	SOH
AB2E	1,295	606	1,798,920	SOA
K3MD	849	476	964,376	SOH TBW
K3WW	426	280	311,360	SOQ
KB3MM	101	82	21,074	SOL
KD2HE	241	193	104,992	SOH
KQ2M	3,368	1,061	9,730,431	SOH
N2ED	318	246	214,020	SOH TBW
N2MM	926	507	1,004,367	SO 15
N3GNW	251	196	111,720	SOH
N3RD	724	454	957,486	SOA
NN3Q	1,288	631	1,851,354	SOA
W2CG	307	235	227,245	SOA
W3BGN	756	393	812,331	75M HP

## CONTESTING — TIPS, TECHNIQUES, RESOURCES

*Reprinted with permission from the May 4, 2005 ARRL Contest Rate Sheet*

Matt WV1K has discovered just the thing for constructing dual-wire Beverages. Fi-Shock makes excellent and inexpensive dual-wire insulators. With a spacing of about 10 inches, the SC-200 is used as the end insulator, the SC-201 to maintain spacing, the A-200 to light up whenever you transmit, and the A-250 warning sign to get the attention of nosey folks! <http://www.fishock.com/> is the Web site for the insulators or see Matt's Web page

<http://www.qsl.net/wv1k/bidirectional.html>.

For everything, there is a season, but contests tend to run on a slightly more precise time scale. Three new Web sites about time turned up for this issue. The first is <http://www.greenwichmeantime.com/>, a site that helps you get synced up to UTC. At the left side of the page is a long list of time conversions and information on time zones. The World Time site (<http://www.worldtime.com/>) displays some excellent graphics for watching the gray line. Finally, for those of you that don't want to sit around waiting for WWV to announce, "The time at the tone...", Bob W2CE contributes <http://www.time.gov/timezone.cgi?UTC/s/0/java> that displays correct time in any time zone. (The Java applet may take a few seconds to load, so be patient.)

An email by Jim K9YC reminded me of the terrifically interesting National Institute of Standards Web site (<http://www.boulder.nist.gov/timefreq>) on time and frequency standards, including the WWV "family" of stations. The encyclopedic AC6V.com has a listing of other standard stations at <http://www.ac6v.com/standard.htm>.

The details of short wave propagation are available in a detailed tutorial "Introduction to HF Radio Propagation" available at no charge from the Australian Space Weather Agency at <http://www.ips.gov.au/>. (Click on "Educational" and then "Radio Communications.")

Pete N4ZR reports good results with the balun kits sold by the Wireman. These are basically a length of Teflon coax and some ferrite beads. He uses a Budwig HQ1 center insulator, installs a PL-259 on each end of the assembled balun, and uses a big cable tie looped over the insulator and taped to the balun to hold the weight of the feedline. For a total cost of around \$15 plus shipping (and a little workbench time), he couldn't be happier.

Dave K1TTT has added a bunch of new links and references to his Web site (<http://www.k1ttt.net/>) that is already chock-full of technical and operating goodies. That's one way to put a rainy day to work - thanks, Dave!

Unified Microsystems (<http://www.unifiedmicro.com/>) is introducing two new USB interface products, the UCW-100 and the UVK-200. Many computers don't have enough LPT and COM ports to satisfy interface demands and new laptops might have only USB ports - what's a contester to do? The UCW-100 is a USB-to-CW converter that looks like a virtual COM port to Windows logging applications. The applications send command and text characters to the converter that are then translated to Morse by the UCW-100, eliminating the need for tricky timing. The UVK-200 is a similar interface for the Unified Microsystems VK-64 combination voice/CW memory keyer. Software developers are encouraged to contact Unified Microsystems for a programmer's manual.

Icom has released a new video on contesting - Icom Radio News, Volume 2. Featuring the W1AW multiop crew from the 2004 Phone Sweepstakes and *hosted by Sara K3000*, it's fast-paced and engaging. You can find the link to it on the Icom Web site (<http://icomamerica.com/amateur>) in the story labeled "Icom's 2004 Dayton Hamvention videos".

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



## CONTESTING — TIPS, TECHNIQUES, RESOURCES

The short item on tower bolts distributed last week was a bit too attenuated to be precise and John WOUN suggested that I print the following, more complete, set of sites for fastener information relevant to antennas and towers. These sites typically have additional links to other useful information, too.

- General Information about fasteners

<http://www.boltdepot.com/fastener-information/Materials.aspx>

- Simple bolt marking chart

<http://www.zerofast.com/markings.htm>

- An extensive chart on fastener markings

[http://www.americanfastener.com/technical/grade\\_markings\\_steel.asp](http://www.americanfastener.com/technical/grade_markings_steel.asp)

- A number of useful and printable fastener charts.

<http://www.boltdepot.com/fastener-information/Printable-Fastener-Tools.aspx>

- Torque specs for Grade 5 bolts

<http://www.clevelandvibrator.com/NewPDF/BOLT%20TORQUE%20%20pages.pdf>

<http://www.hastingsmfg.com/Service%20Tips/torque.htm>

<http://www.morbark.com/Service/belttorque.pdf>

<http://www.zerofast.com/torque.htm> (watch out for typos in the size column)

- More than you ever wanted to know about corrosion.

<http://www.corrosion-doctors.org/>

- Interesting note about recommended torques for smaller machine screws

<http://www.madsci.org/posts/archives/aug2000/967051394.Eg.r.html>

Bob N7RDP also cautions against assuming that an NC bolt is an SAE bolt. An unmarked bolt might have as little as 1/10 the ultimate strength of an SAE grade 5 plated bolt. The key is to look for the bolt grade marking - the 3 hash marks on the bolt head as described in the bolt marking chart listed above.

### *Reprinted with permission from the May 18, 2005 ARRL Contest Rate Sheet*

The WRTC-Style Team Challenge will again be featured as a "contest-within-a-contest" during the 2005 IARU HF Championship. Sponsored by your editor and mimicking the WRTC team format, the competition encourages two-operator teams to practice using WRTC rules. There will be two changes this year:

- high power is allowed (both low and high power will be noted in the results)

- a special category for all family, siblings, parent-child, or spouses (dedicated to OK1QM and his father OK1NR)

Rules will be posted on the Western Washington DX Club's Web site, <http://www.wwdx.org/>. Grab a friend and enjoy the contests!

## CONTESTING — TIPS, TECHNIQUES, RESOURCE

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Ken WM5R has posted a short article at <http://www.contesting.com/articles/647> discussing the log submissions each year for the past ten years in each of the ARRL-sponsored contests. One chart shows the HF contests (including Field Day) and the other the VHF+ contests. The trends in the VHF chart are very different from the trends in the HF chart - very interesting material.

Jim VE7FO suggests one additional fastener Web site - <http://www.fastenal.com/>. Click on Resources, click on Resource Document Library, then click on Fastenal Technical Reference Guide. A treasure trove of information! John W0UN came up with one more site, as well. "Here is an excellent source of information on metal specifications, shapes, and regularly produced sizes: <http://www.metalreference.com/>. On the home page just pick what type of metal you are interested in, aluminum, cold rolled steel, copper alloys, stainless steel, etc). Pick the shape you want and click INFO to get a table of all of the commonly available dimensions." John also recommends for those of us that enjoy watching buildings get "blowed up good" - <http://www.implosionworld.com/natgeo.htm>.

The "Falling Derrick" method of tower erection has nothing to do with using AA5BT as a counterweight. Rick N6BK uses this method to erect his 50-foot, 18-inch face Glen Martin Hazer tower and has been kind enough to describe the method at [http://www.n6rk.com/falling\\_derrick\\_gme/falling\\_derrick\\_gme.html](http://www.n6rk.com/falling_derrick_gme/falling_derrick_gme.html).

Array Solutions (<http://www.arrayolutions.com/>) rolled out the new PowerMaster Power/VSWR meter and the Opti-beam OB11-5 beam at the Dayton Hamvention. The OB11-5 has 17 elements and covers 5 bands. The PowerMaster has more functions than any standalone meter on the market plus software features via an RS232 port that supports real-time data transfer to a PC. With the large Vacuum Fluorescent display (VFD), separate RF sensor, several modes of operation, and alarm functions, the PowerMaster sets a new standard for digital VSWR and power measurement. The PowerMaster is FCC and CE certified, as well. The 3 kW version's introductory price is \$350.

Kanga US will be introducing a new Digital Power Meter kit designed by Roger Hayward KA7EXM. It measures from approximately -75dbm (30 picowatts) to +7dbm (5 mw) from 1 - 500 MHz. An external tap can be built that will allow measurements of higher power. More info is available at:

<http://www.bright.net/~kanga/kanga> where there are a number of neat kits and products.



### 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.

Make your tower look "like new" this year with a fresh coat of paint.

Inquire about special deals on spring tower painting.

Reasonable hourly rates and scheduling that meets your needs.

Contact: John Crovelli W2GD

w2gd@hotmail.com

(908) 996 3043

### **Dayton Hamvention: "Generate Some Heat" to Spur Political Action**

Amateur Radio licensees need to start taking personal responsibility for prodding politicians to pay attention to hot-button issues affecting the service, a Dayton Hamvention forum heard May 20. ARRL Hudson Division Director Frank Fallon, N2FF, told the League's Grassroots Lobbying Forum that when it comes to Congress, individual radio amateurs can help shape their own future.

"Political lobbying is something people don't really want to hear about," Fallon conceded. "But politics controls everything we get." Fallon used the broadband over power line (BPL) proceeding as an example of how politics can overcome logical, technical argument. Fallon heads up the League's nascent grassroots lobbying initiative with assistance from Great Lakes Director Jim Weaver, K8JE, and Northern New Jersey ARRL Section Manager Bill Hudzik, W2UDT.

Fallon focused many of his remarks on a US House of Representatives resolution, HRes 230, sponsored by Arkansas Rep Mike Ross, WD5DVR, and introduced earlier this year. The resolution calls on the FCC to "conduct a full and complete analysis" of BPL radio interference potential incorporating "extensive public review and comment," and--in light of that analysis--to "reconsider and review" the BPL rules it adopted last October.

If approved by the full House, the non-binding resolution would express the requests as "the sense of the House of Representatives. "The job at this point is to get cosponsors for the resolution and see it pass the House, and that won't happen "unless we can generate some heat," Fallon said.

"So, if we are hanging out in the basement and doing nothing but building rigs and working DX, we're going to be victims" of the political process, Fallon told his audience. He explained that ARRL, as a nonprofit IRS Section 501(c)(3) organization, must adhere to strict limitations on its lobbying activities. It cannot endorse political candidates or contribute to political campaigns, he explained. "You can," he pointed out. "We can't."

Fallon said one way ARRL members can get vocal about legislative issues of importance to Amateur Radio is to visit, write, e-mail or fax their US representatives or US senators. "Your letters, e-mails and visits to district offices give us entrée to legislators in Washington," he said. "It won't happen without your help." Personal visits to lawmakers at their district offices, he said, help to "put a face on ham radio" for politicians.

The focus of the ARRL Grassroots Lobbying initiative will be on measures that deal with FCC matters, because Congress oversees the Commission. Weaver told the gathering that grassroots lobbying is aimed at helping Amateur Radio to fashion its own future. Hudzik reiterated the importance of personal involvement. "The more we're seen in a positive light, the easier it will be," he concluded.

In the "ARRL Goes to Washington for You" forum that followed, ARRL President Jim Haynie, W5JBP, continued in the same vein. Haynie debuted the ARRL's new video, "ARRL Goes to Washington," narrated by network news legend Walter Cronkite, KB2GSD.

The video--produced by Dave Bell, W6AQ, Alan Kaul, W6RCL, and Bill Pasternak, WA6ITF, but not yet available--depicts the League's more recent efforts in official Washington and on Capitol Hill to convey the importance of Amateur Radio as a national resource. Haynie and other members of League officialdom spend several weeks a year promoting visibility for Amateur Radio and the ARRL's views--as indicated by its membership--on pending legislation or FCC proceedings.

The video also makes the point that ordinary citizens must get involved and orchestrate change by getting the attention of lawmakers confronted with hundreds of constituent interests and issues. "We've got to ratchet up our presence," Haynie said, urging more individual amateur participation in the political process. Individual licensees also are voters, and lawmakers are quite aware that there are radio amateurs in their districts, he said.

### **FCC Staffer: BPL Faces Uncertainty, Technical and Financial Viability Issues**

FCC Wireless Telecommunications Bureau staff member Bill Cross, W3TN, told the FCC Forum at Dayton Hamvention May 21 that "a lot of uncertainty" surrounds BPL, including questions as to its technical and financial viability and where, how and if it will fit into the communications future. Cross works in the WTB's Public Safety and Critical Infrastructure Division, and much of his work directly involves the Amateur Radio Service. Devoting nearly a quarter of his remarks to the standing-room-only audience to BPL, Cross discussed various aspects of the FCC's October 14, 2004, Report and Order in ET Docket 04-37. The R&O established new Part 15 rules to implement BPL systems. Cross said the Commission's expressed a lot of "potentials" and "coulds" in outlining its rationale for promoting BPL as another competing broadband pipeline.

"Whether BPL catches on will be a decision made by economics, both for those who want to provide the service and consumers who have to decide it is better for them than other broadband services," Cross said. He also said the FCC recognizes BPL's potential to interfere with Amateur Radio and other radio services.

"Also note that BPL is coming on the scene, at best, as the fifth player in a field already crowded with heavy hitters," he said. "Currently we have cable, satellite, non-satellite wireless broadband and telephone lines available and providing broadband service." Cross said telephone companies already are looking at installing fiber optic cable to the home to expand available bandwidth for consumers. At the same time, he said, cable companies "have been spending gazillions of dollars upgrading their systems to digital systems so they can provide services other than traditional TV service."

Citing the current heavy level of advertising and even price-cutting by industry players for a bigger piece of a "fixed pot of dollars," Cross asked, "Where does BPL fit in?" Cross said he didn't believe anyone was now getting a barrage of offers for BPL-provided services. "Nor will we be anytime soon, from what I have read in the communications press." Cross pointed out that FCC Part 15 rules require that licensed radio services such as Amateur Radio must be protected from harmful interference. He also noted that the FCC was careful to carve out reservations and set specific prohibitions regarding BPL deployment on certain parts of the spectrum allocated to civil aviation users, in addition to imposing some strict requirements to mitigate interference.

"You wonder, with all these restrictions--including some that prohibit BPL deployment in what appear to be very profitable areas--a reasonable question might be: Who would want to go into this business?"

The current tug of war, he said, is between the three or four companies interested in BPL--who want less onerous restrictions--and the ARRL and other users who don't believe the restrictions go far enough. Both sides have filed petitions for reconsideration.

"Those petitions are pending, and whatever is decided on them will affect the final rules for BPL and may very well affect its viability," Cross concluded.

Regarding Amateur Radio proceedings now before the Commission, Cross was unable to pin down for FCC Forum attendees when they might expect to see a Notice of Proposed Rule Making in response to 18 petitions for rule making filed by ARRL, other Amateur Radio organizations and individual licensees. The primary hot-button issue in that proceeding is the future of the Morse code requirement for access to HF amateur bands. The FCC also is considering proposals to create a new entry-level license class and to implement some additional Amateur Radio license restructuring, including automatic upgrades from Technician to General and Advanced to Extra.

Cross said he anticipates the FCC will combine the 18 petitions into one NPRM and invite another round of comments from the amateur community. "I suspect the proposed rule making will be coming out in late summer or this fall," Cross said. The comment period could extend into early 2006, he added, after which a Report and Order would be written.

The amateur community also can expect a Report and Order as a follow-up to its April 2004 NPRM in WT Docket 04-140, Cross said. The main proposal in that proceeding--ARRL's so-called "Novice Refarming" plan--would eliminate the Novice/Tech Plus CW bands and use that spectrum to expand portions of the 80, 40 and 15 meter bands. Current Novice and Tech Plus licensees would get CW privileges in the current General CW bands. Cross said commenters generally seem to support the proposal, although he cited requests to establish even wider phone bands, "particularly in the 75-meter band."

Among other issues, the FCC also has proposed in the same proceeding to essentially do away with its rules prohibiting the manufacture and marketing to Amateur Radio operators of amplifiers capable of operation on 12 and 10 meters.

### **CW Ops Whip Text Messengers on National TV**

It may have been Friday the Thirteenth, but it was a lucky day for Morse code--and particularly for veteran CW contest ops Chip Margelli, K7JA, and Ken Miller, K6CTW. During a May 13 appearance on NBC's *The Tonight Show* with Jay Leno, the pair was able to pass a message using good old fashioned Morse code more rapidly than a pair of teenaged text messengers equipped with modern cell phones. The victory, which replicated a similar challenge that took place recently in Australia, has provided immense encouragement to Amateur Radio's community of CW operators, who ballyhooed the achievement all over the Internet. The text messaging team consisted of world text-messaging champ Ben Cook of Utah and his friend Jason. Miller said afterward in a reflector posting that the CW team won fairly handily. "Ben was just getting ready to start entering the last two words when I was done," he said on the Elecraft reflector in response to various questions he's received following the TV appearance. "I already knew that 28-30 WPM would easily keep us in front of even the current world [text messaging] record holder, and also it is the fastest speed that I can make nice readable copy on paper with a 'stick' [pencil]." Miller said it was decided he'd be on the receiving end because he wasn't distracted by the noise in the studio.

Margelli recalls that he was sending at 29 WPM. "I believe the goods were suitably delivered," he told ARRL. "CW and old guys rule!" What the viewing public didn't know was that Margelli and Miller had, in Miller's words, "smoked 'em every time" during three pre-program rehearsals. Even so, during the real thing, when Miller raised his hand to signal he'd copied the CW message successfully, Jason's jaw dropped. None of the players had any idea of the text they'd be sending, Miller noted. The message? "I just saved a bunch of money on my car insurance."

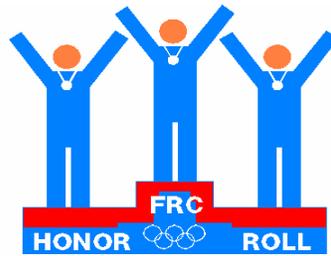
As with many *Tonight Show* bits, this one involved a member of the audience, a young woman named Jennifer who predicted--incorrectly as it turned out--that text messaging definitely would top 170-year-old Morse code. She walked away with a gift of restaurant tickets anyway.

Margelli says the CW team used Yaesu FT-817 transceivers--one of his own and another owned by Dan Dankert, N6PEQ. Backup units--not needed--were provided by HRO; Margelli's wife Janet, KL7MF, manages an HRO store. They ended up using 432.200 MHz as an operating frequency in order to avoid RFI from the plethora of TV equipment in the studio and to avoid interfering with NBC's gear. They ran the little transceivers at their lowest power level and with the antennas disconnected--although they were mounted on the back of each unit--no problem given the close proximity involved. Margelli sent with a Bencher paddle.

To add a little atmosphere to the affair, NBC producers attired Margelli and Miller to look like 19th-century-era Western Union or railroad Morse telegraphers. The costumes came complete with green visors, white shirts, sleeve garters, vests and bow ties. The teenaged SMSers wore T-shirts and jeans.

A member of the Morse Telegraph Club and a QRP enthusiast, Miller said he'd been using CW for 38 years. Margelli told Leno he'd been using Morse "for 43 years in ham radio," a phrase Leno echoed. That was the only plug Amateur Radio got during the appearance on the show's "Dinner for 4" segment. Miller says that during rehearsal, the pair had come up with a few lines to promote ham radio and telegraphy, but they were cut during the final dress rehearsal in the interest of making the segment fit its allotted time slot.





**JUNE**                      **CONDUCTED by N2SS**                      **2005**

**WARC BANDS**

<u>30 Meters</u>	<u>17 Meters</u>	<u>12 Meters</u>
<b>K2FL .. 332</b>	<b>K2FL...335</b>	<b>N2TK ..328</b>
N2TK .....328	N2TK ..... 334	K2FL..... 326
N2LT .....318	N2LT ..... 332	N2LT..... 321
W3BGN ...313	W3CF ..... 331	W3BGN ... 313
K2RW .....296	W3BGN ... 326	W3CF ..... 303
W2YC .....296	K2RW ..... 324	N2SS..... 302
W8FJ .....287	N2SS ..... 320	K2RW ..... 300
N2SS .....286	K2PS ..... 302	W2YC ..... 273
K2PS .....281	W2YC ..... 300	K2PS..... 268
W2UP .....248	W2UP ..... 293	W2UP ..... 247
N3RD .....240	W8FJ ..... 291	W8FJ ..... 228
N2MM .....233	N2MM..... 268	N1RK..... 218
K3II .....229	N1RK ..... 253	KQ3F ..... 215
W2LE .....212	KQ3F ..... 245	K3II ..... 202
NZ3O .....188	K3II ..... 240	N3KN ..... 191
KQ3F .....182	NZ3O ..... 233	K2NJ ..... 190
AA2WN...171	W2LE ..... 202	NZ3O ..... 188
W2RQ .....144	W2YR ..... 202	W2YR ..... 187
AB2E .....132	K2NJ ..... 179	N2MM ..... 185
W2YR .....132	K2JF ..... 168	W2LE ..... 176
K3CT .....126	N3KN ..... 168	NA2U ..... 154
N3KN .....119	NA2U ..... 162	K2JF ..... 135
K2NJ .....113	W2RQ ..... 142	AB2E ..... 92
K2JF .....112	K3ND ..... 119	K3CT ..... 76
NA2U .....105	AA2WN ... 116	W2RQ ..... 62
N1RK .....97	AB2E ..... 114	K3GYS ..... 30
K3ND .....76	K3CT ..... 91	N2VW ..... 27
N2VW .....71	K3GYS ..... 85	AA2WN ..... 20
W3CF .....61	N2VW ..... 65	W2CG ..... 1
K3GYS .....17		

K2FL and N2TK still duking it out for that elusive, undisputed **KING OF WARC**

**Rules for FRC Honor Roll Listings.**  
Provide me with your total IOTAs worked, or countries (including deleted) worked for: WARC Bands, 160 Meters, Digital modes, Mobile, 6 Meters or your total for 80,40,20, 15 and 10 for 1.5K Club. Countries do not count until HQ Awards Committee takes action and announces a start date for a new country.

**160 Meters**

<b>W3BGN .....293</b>	K2PS ..... 106
AA1K .....287	K2RW ..... 93
WT3Q .....254	AB2E ..... 90
N2LT .....248	W2CG ..... 85
N2TK .....243	W2YR ..... 81
K3SX .....224	N2SS ..... 79
NO2R .....208	NA2U ..... 78
W8FJ .....207	N2VW ..... 77
K3JIG .....190	W3CF ..... 77
W2UP .....186	K3NL ..... 70
N2MM .....182	K3CT ..... 63
K3NZ .....172	K2NJ ..... 59
W2YC .....171	NZ3O ..... 55
K3NM .....156	KQ3F ..... 54
N3RS .....156	N1RK ..... 42
K3II .....149	AA2WN ..... 36
K2FL .....143	K2JF ..... 34
K3ND .....136	W2LE ..... 28
W2RQ .....123	N3KN ..... 28
.....	K3GYS ..... 12

W3BGN continues as the undisputed Top of Top Band.

**DIGITAL**

<b>W2UP .....335</b>	W2YR ..... 139
N2LT .....332	K2JF ..... 113
K2PS .....285	W2LE ..... 85
K2RW .....266	KQ3F ..... 78
W2YC .....242	N2SS ..... 53
K2NJ .....235	N1RK ..... 39
AA2WN .....187	K3GYS ..... 15
N3KN .....179	W8FJ ..... 12

**MOBILE DX**

<b>W2YC .....276</b>	K3GYS ..... 143
AA1K .....270	AA2WN ..... 131
N2SS .....234	W2YR ..... 21
K2JF .....150	

**1.5K Club**

<b>K2FL..... 1708</b>	K3ND .....1496
<b>W3BGN .... 1696</b>	KQ3F .....1446
<b>N2TK ..... 1687</b>	K2NJ .....1406
<b>N2LT ..... 1684</b>	W3CF .....1403
<b>W2UP ..... 1659</b>	AA2WN .....1369
<b>W2RQ ..... 1623</b>	K2JF .....1350
<b>K2RW ..... 1610</b>	NA2U .....1335
<b>N3RS ..... 1593</b>	W2CG .....1305
<b>W8FJ ..... 1593</b>	N1RK .....1287
<b>K3II ..... 1573</b>	N2VW .....1258
<b>W2YC ..... 1542</b>	K3CT .....1229
<b>N2MM ..... 1524</b>	W2YR .....1148
<b>N3RD ..... 1521</b>	W2LE .....1141
<b>N2SS ..... 1520</b>	N3KN .....1111
<b>K2PS ..... 1516</b>	K3NM .....1107
<b>NO2R ..... 1516</b>	NZ3O .....1088
.....	AB2E .....1074

**Islands On The Air**

<b>K2FL..... 989</b>	NZ3O .....317
N2SS ..... 811	N2VW .....259
W2YC ..... 604	W3CF .....253
W8FJ .....592	W2YR .....234
N1RK .....540	K3GYS .....215

**6 METER DXCC**

<b>N2LT ..... 106</b>	N2SS .....55
K2NJ ..... 100	N3KN .....52
AA1K ..... 98	K2RW .....42
K2PS ..... 96	W2YR .....41
K2JF ..... 94	W2YC .....19
K3SX ..... 75	AA2WN .....15
K3OO ..... 71	K3GYS .....10
N1RK .....57	



# 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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Email: kq3f@comcast.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  
145.650 K2TD  
145.670 W3PP  
145.730 N2BIM  
147.495 W3MM

### Telnet DX Cluster

k2ut.gofrc.org  
k3ww.gofrc.org 7300  
w3frc.gofrc.org 7300