



THE FRANKFORD RADIO CLUB NEWSLETTER

PROFICIENCY THROUGH COMPETITION

CALENDAR

July 2004:

- 1 RAC Canada Day Contest
- 10-11 IARU HF World Championship
- 13 Rexy Meeting B**
- 15 T.I.T.S. Meeting, Noon**
- 24-25 Russian RTTY WW Test
- 27 Rexy Meeting B**

August 2004:

- 7-8 No. Amer. QSO Party, CW
- 10 Rexy Meeting B**
- 14 FRC Summer Mtg, W1GD**
- 14-15 WAE DX Contest, CW
- 14-15 MD-DC QSO Party
- 19 T.I.T.S. Meeting, Noon**
- 21-22 No. Amer. QSO Party, SSB
- 21-22 New Jersey QSO Party
- 24 Rexy Meeting B**

September 2004:

- 4-5 All Asian DX Test, SSB
- 7 FRC Main Meeting, Phila**
- 7 Rexy Meeting B**
- 11 No. Amer Sprint, CW
- 11-12 WAE DX Contest, SSB
- 16 T.I.T.S. Meeting, Noon**
- 18 No. Amer Sprint, SSB
- 18-19 Scandinavian Contest, CW
- 21 Rexy Meeting B**
- 25-16 CQWW DX, RTTY
- 25-26 Scandinavian Contest, SSB

CHANGES

None this month

Deadline for the August issue:

Sunday, July 25, 2004

From the Editor

I was recently persuaded by the president of the local radio club to come out to Field Day for a few hours. Why? They needed a CW op. Now, I haven't been to a Field Day in 25 years and came away truly sorry that I couldn't spend more time at it (though they actually had another CW op...wow TWO).

I noticed the ops at the 20 meter station struggling on SSB before they got tired of it all and asked if anyone wanted to operate. I hesitated, then said "sure, I'll have a go", and got my keyer. Well, what had been a struggle became less so. With a small vertical on 20 meters, I was able to run stations. OK, some of that is from contest experience, but some of that is also the nature of CW and the ability it has to get through with barefoot power and a small vertical. Stations from all over the country and several European countries called me. When I was searching and pouncing, what took multiple (and I mean multiple) calls on SSB rarely took more than one call on CW.

Two points: first, what are we as a club doing to encourage more new ops to work CW? Yes, it's not the easiest thing to learn, but it can be done. Second, for those of you who know CW, you can have an impact with a simple rig and antenna. It won't be megapoints, to be sure, but you can still have fun. My two cents.

73, Joe KQ3F

CQ WPX CW FRC Claimed Scores

AA3B	2162	748	4,894,912	SOH
K3WW	2476	820	6,300,880	SOA
KD2HE	176		69,165	SOA
KN0WCW/2	645	362	584,630	SOtsLP
<i>Op. N2ED</i>				
KQ2M	2769	864	7,496,064	SOH
N2NC	2096	832	4,380,480	SO20
N2NT	415	284	495,864	SO40
N3RS	381	264	322,344	SOA
NO2R	2719	948	7,284,484	M/S
<i>Ops. NO2R, K2NG</i>				
W2YC	664	413	801,365	SOA
W3BGN	1017	524	2,290,404	SO40
W8FJ	858	456	1,237,128	SOA

MEETINGS

T.I.T.S. meeting—The Trexlertown International Transmitting Society meets on Thursday, July 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..

— . . . —

2004 FRC Fund Drive

The 2004 **FRC** Annual Fund Drive is now officially underway. If you haven't yet made a contribution, there's still time. Please make your check payable to: "**Frankford Radio Club**"

If you didn't receive or misplaced your envelope, you can send your contribution to:

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

**** PLEASE BE SURE TO WRITE YOUR CALL ON YOUR CHECK. ****



The following are members who've contributed to date:

- AA3B K2RW K3II K3ZV N2CQ N3KR NW3Y W2UDT W3GK**
 - AD3Z K2SB K3JGJ KB3M N2LT N3NR NY3C W2YC W3KV**
 - K2DM K2SWZ K3MD/N3PUR KB3TS N2MR N3RD NZ3O W2YR W3MA**
 - K2FL K2TW K3ND KD2I N2MT N3RG W1GD W3AP W3MF**
 - K2GN K2UT K3NL KD3TB N2NC N3RS W2CG W3BEN W3MM/W3RAT**
 - K2NG K2WK K3NZ KF3B N2SS N3ZA W2GD W3BG W3OV**
 - K2OW K3ATO K3OO/K3OOO KQ2M N2TK N9GG W2LE W3BGN W3SOH**
 - K2PS K3BU K3PH KQ3F N2VW NC1A W2RE W3EA W4AA**
 - K2QM K3CP K3WW KU3X N3BNA NO2R W2SN W3FV W8FJ**
 - K2QMF K3CT K3YD N1RK N3KN (WAS WT3P) NQ3N W2TV W3FVT**
 - WA2VYA WB3CIW WQ3E**
- New since last newsletter: K3TEJ W3CC KD2HE K3CY K2SG WF3H WT3W**
- WE3C N3BB/5**

**FRC Summer Meeting
Saturday, August 14, 2004**

Directions to W1GD's House

**Gerry Kersus
2814 Constitution Way
Wall, NJ 07719
732-681-9124**

From Garden State Parkway (Either North-bound or South-bound):

Take GSP to **Exit 98**. Follow signs for Route 138 East (Wall Township, Spring Lake, Belmar).

Get on Route 138 East. Stay in right-hand lane.

Almost immediately after getting on Rt. 138 E, you will come to a traffic light. Just past the traffic light, take jug-handle and follow signs for Glendola. You are now on Allenwood Road.

Cross over Rt. 138 and continue on Allenwood Rd. After about 0.5 miles, the road makes a sharp right. Continue past a white church and the school building.

Just past the Central School building, turn right onto Liberty Lane.

Take Liberty Lane to the end and turn right onto Governor's Crossing. Go about 0.2 miles and turn left onto Constitution Way. The house is on the left. It's a white house with red shutters and a tower in the back.

From Route 18 South-bound

Take Route 18 South to **exit 7B**. This is for Brighton Ave West to Glendola.

Go west on Brighton Ave to a stop sign. Turn left onto Gully Rd.

Go approximately 0.2 mile and turn right onto Allenwood Rd.

Continue on Allenwood Rd. past the stop sign/red blinker.

Go approximately 0.3 mile past the stop sign and turn left onto Liberty Lane.

Take Liberty Lane to the end and turn right onto Governor's Crossing. Go about 0.2 miles and turn left onto Constitution Way. The house is on the left. It's a white house with red shutters and a tower in the back.

From Route 195 East-bound

Follow Route 195 until it becomes Route 138.

Just past the first traffic light on Route 138 East, take jug-handle and follow signs for Glendola. You are now on Allenwood Road.

Cross over Rt. 138 and continue on Allenwood Rd. After about 0.5 miles, the road makes a sharp right. Continue past a white church and the school building.

Just past the Central School building, turn right onto Liberty Lane.

Take Liberty Lane to the end and turn right onto Governor's Crossing. Go about 0.2 miles and turn left onto Constitution Way. The house is on the left. It's a white house with red shutters and a tower in the back.

Work Wanted:

Experienced climber available to perform antenna and tower maintenance.

Remove/install antennas, repair feedlines, rotator replacements, guy wire renewal, expert tower painting, and new tower installations or replacement. Reasonable hourly rates.

Contact: John Crovelli W2GD

W2GD@hotmail.com

908 996 3043 (Home Office)



KLM KT34XA 6 element, triband (10/15/20) antenna. Boom is 3" diameter and 34' long. No traps. Sitting in storage with balun in very good condition. Pickup only near Doylestown, Bucks County, PA. Asking Price: \$350.00 Please call Silvio, WA3YOB, at 215 343 7486 or email at wa3yob@comcast.net

I have the following items for sale. This is a shack cleaning out sale. All items must go! At the end of July I am closing on my house and moving into a motor home. I have no room for this stuff or any desire to drag it around the country for the next few years. These items are offered to **FRC** members and so far only advertised here. I have not put any prices on these items and will entertain any offers. You guys know more about their worth than I do and I don't have the time to search Ebay to see what their going for. Make an offer if you want it. All items must be picked up ant my QTH in Asbury, NJ (not Asbury Park) in Warren County unless you're real close and I can find the time to meet up with you. Most have manuals and everything is in working order. Call me at 908 689 2832. 73, John K2WJ

- | | | |
|--------------------------------------------------------------------|-------------------------------------------------|----------------------------------|
| Cushcraft 2 meter 4 element beam | Ringo Ranger 2 mtr | Butternut Vertical 40/80 |
| Cushcraft R7 Vertical | Realistic Pro-2006 scanner | Realistic Pro-1 tuner (low band) |
| Bearcat XL-210 scanner | Icom 28H 2 mtr | Bencher YA-1 Low Pass Filter |
| Astron RS 35M power supply | Astron VS 20M power supply | Astetic D104 Silver Eagle Plus |
| Icom IC 3PE Power Supply (3 amps) | Comet CA-HV mobile HF w/ 10-15-20-40 coils | |
| Bencher Iambic paddle (Chrome base) | | |
| Maxon Hi band hand held SP140V2 w/ new Bat and New Drop in charger | | |
| AEA Halo 6 never assembled | Lafayette Transceiver tester (CB) W/ manual | |
| Lafayette SWR/Field strength meter w/ Manual | Hustler SF-2 2 mtr mobile 5/8 wave 3/8x24 mount | |
| Alpha Delta-4 coax switch | Brown Brothers twin lever key UTL-A | |
| Icom CT-17 Level converter | Icom IC-R2 with software (not blocked) | |
| Diamond D-130J Super Discone Antenna | Shakespeare Super big Stick base CB | |
| Maha MH-c777 Universal Charger | Radio Works B1-2K Balun (new) | |
| Simpson Electric VOM (New) w/ leather case | One pair of Motorola FRS hand held T5200 | |

VIRGINIA CITY, BPL PROVIDER PART WAYS; PEPCO OPTS OUT OF BPL INVESTMENT

The City of Manassas, Virginia, and broadband over power line (BPL) franchisee Prospect Street Broadband have parted company, and the city is seeking a new business partner. The decision to terminate the joint venture was mutual, according to city officials, and the city has acquired Prospect Street's interests. Manassas was planning to open bids from prospective replacement BPL providers June 7.

ARRL CEO David Sumner, K1ZZ, called the failure of the Prospect Street-Manassas deal just another example of a BPL deployment decision gone awry. He also predicted that BPL would not prove to be the revenue generator the city anticipates. Under the franchise agreement, Manassas receives 10.5 percent of BPL revenue and is responsible only for the relatively small cost of equipment installation. The failure of the franchise agreement leaves the city with obligations that far exceed revenues, however.

The first municipally owned utility to offer citywide BPL, Manassas has changed the name of its project from the Broadband over Powerline Enterprise to the Telecommunications Services Enterprise. City budget documents indicate that Manassas is prepared to loan \$400,000 to the Telecommunications Services Enterprise Fund "to finance operating expenses" in Fiscal Year 2005.

The city's small BPL field trial involved fewer than a dozen homes and businesses in an area with underground utility wiring and no nearby Amateur Radio licensees. "Results of the eighteen-month pilot program were favorable and demonstrated BPL as a viable technology for the delivery of data services," the city's bid invitation declares. The city approved full-scale BPL deployment last October and started offering the service in February. The contract with Prospect Street Broadband apparently was terminated several weeks later.

The city's glowing pro-BPL comments on the FCC's Notice of Proposed Rule Making in ET Docket 04-37, filed May 3, neglect to mention the cancellation of the Prospect Street agreement. The comments also say the city "remains sensitive" to Amateur Radio's interference fears. Manassas Utilities Director Allen P. Todd, W4VUB, has met with members of the Ole Virginia Hams (OVH) Amateur Radio Club to address their concerns, the comments note, and a BPL connection was set up in the home of OVH member Bob Zaepfel, K4HJF. The city made a letter from Todd describing its efforts to cooperate with local amateurs part of its comments to the FCC. That letter says that during informal tests in early April, OVH members were "unable to identify any interference in the amateur bands being caused by BPL installation." Todd's letter did not provide test details.

The Manassas Journal Messenger reported this week that two neighborhoods now are fully equipped for the service, and, to date, 200 customers are using the service, although the bid proposal says the city's deployment of BPL "passes more than 2000 homes with the fiber infrastructure passing more than 4,000 homes, and fiber construction continuing each day." Manassas charges \$28.95 a month for its BPL service. The city is supposed to complete its citywide BPL rollout by this fall. City officials told the Journal Messenger that the Prospect Street contract termination will not affect BPL delivery.

Elsewhere, Pepco, a utility serving 700,000 Washington, DC, and Maryland customers, and its parent company, Pepco Holdings Inc, have decided to forgo any investment in BPL. Pepco continues to operate a BPL field test in Potomac, Maryland. The utility is continuing discussions with BPL partner Current Technologies and has indicated it's open to proposals to lease access to their power lines to deliver broadband service. Pepco was said to be less interested in delivering broadband than in finding ways to improve its billing systems. A company spokesperson said the decision not to invest in BPL applies to all Pepco Holdings Inc companies.

Additional information on BPL and video clips from field trial sites are on the ARRL Web site <<<http://www.arrl.org/bpl/>>>.

CONTESTING — TIPS, TECHNIQUES, RESOURCES

From the ARRL Contest Rate Sheet

George K5KG offers some timely safety ideas when using any kind of a line-tethered "launcher". "(1) I never use the launcher without a leather glove on the left hand and a full face shield (kind used by woodworkers), and (2) I use a closed-face fishing reel which is much less prone to line snags." This is excellent advice, no matter how good you are in the use of such things, even the tried and true Armstrong Method. All it takes is one "oops" and whatever is tied to the end of the line makes a quick 180-degree turn and heads right back at whatever launched it. And that would be you.

If you're as cheap, I mean frugal, as I am, you hate throwing away a battery that has even a smidgen of charge left in it. Surely there is some way to use up every last electron? Here's a good way to get some good out of those nearly-exhausted cells - <http://www.emanator.demon.co.uk/bigclive/joule.htm>. This little gadget is called a "joule thief." It reportedly works down to a battery voltage of 0.55 V. Even I will throw out a battery at that level of discharge. (Thanks, Chuck WB9KZY)

When using a Windows-based application, you can capture a screen image to the Windows clipboard very easily using the Shift-Prt Sc or ALT-Prt Sc keys. It's discussed here:

http://www.communicateusingtechnology.com/articles/how_to_use_screenshots.htm >

Paste the resulting image into a blank image for a graphics program, such as PAINT and you have a valuable free tool for image manipulation.

Don't damage those sensitive components when soldering! Jack N7AM observes that some soldering irons have leakage from the 120 VAC power to the tip of the iron. In fact, he found three of four irons had AC leakage to the tip. Use a 3-wire iron with no leakage or you could do serious damage to a radio or other electronic device.

Web writeups for the 2003 RTTY Roundup and the 2003 Ten Meter Contest are now available to ARRL members. (Non-members will gain access when the print version of the article is published.) Gavels for contest winners to date have been shipped or presented. The combined list of Logs Received for the 2004 Phone DX Contest is posted to the web. (Thanks, Dan N1ND)

Challenge your friends for some summertime fun! The WRTC-Style Team Challenge will be sponsored once again this year during the IARU HF Championship by your editor with the kind assistance of the Western Washington DX Club. Last year's event drew 18 teams on three continents and kept the WRTC spirit burning bright. The contest is between two-operator teams that adhere to the WRTC-2002 rules (with some exceptions) and compete with each other in the IARU's Multi-Single category. Complete rules can be found at <http://wwdxc.org/wrtcrule.htm> and the writeup for last year's inaugural event was printed in the Nov/Dec 2003 issue of the National Contest Journal.

— . . . —

ARRL TAKES ISSUE WITH PUBLIC FUNDING OF NEW YORK BPL PROJECT

The ARRL has questioned the propriety of a New York State Energy Research and Development Authority (NYSERDA) grant from public funds to promote a broadband over power line (BPL) project. The project is believed to be the BPL field test now under way in Briarcliff Manor. The Westchester County community is just north of New York City. ARRL CEO David Sumner, K1ZZ, on June 10 faxed a strongly worded letter to NYSERDA President Peter R. Smith asserting that acknowledged interference from the Briarcliff Manor installation clearly violates the Communications Act of 1934.

"We respectfully suggest that this violation of federal law is relevant to the question of whether such a grant of funding is in the public interest," Sumner told Smith. He said both fixed and mobile stations operated by the nation's 680,000 Amateur Radio licensees in the US "are entitled to absolute protection from harmful interference from unlicensed emitters such as PLC/BPL systems."

Utility Consolidated Edison and Ambient Corporation on June 8 announced the award of NYSERDA funding, pending final contract negotiations, "to enhance their PLC pilot in Westchester County." The announcement from Ambient says the Con Edison-Ambient proposal "was favorably reviewed by a technical evaluation panel and NYSERDA management." The authority will provide up to \$200,000 of the \$480,000 project.

Smith said NYSERDA was "excited about the potential PLC technology has to improve system reliability and power quality for business and residential customers in New York." Ambient says the project will enable Con Edison to monitor two overhead distribution circuits via Ambient's utility applications as well as provide a backbone to deliver high-speed Internet service. "To gain the support of a government agency such as NYSERDA, is a further testament to the potential of Ambient's technology," the news release said.

Sumner told Smith that the Briarcliff Manor field trial for months has been "the source of ongoing harmful interference to radio communication in violation of §15.5(b) of the Federal Communications Commission rules." He pointed to documentation of interference, filed complaints and failures to immediately eliminate the interference posted on the "BPL in Briarcliff Manor" Web site <<<http://www.columbia.edu/~alan/bpl/>>> of ARRL member Alan Crosswell, N2YGK, a resident of the community. Sumner also attached an April 26 reply to the FCC from Holland & Knight LLP, a law firm representing Ambient, in response to Crosswell's March 31 interference complaint. The letter, to Jim Burtle, chief of the Experimental License Branch within the FCC's Office of Engineering and Technology, indicates that Ambient representatives spoke with Crosswell "to confirm that the company takes his interference concerns seriously" and was evaluating various options, including notching. The Briarcliff Manor pilot project was granted an FCC Experimental License, WD2XEQ, last September.

In his letter to Smith, Sumner said the BPL system operator failed to terminate the test immediately following Crosswell's complaint and allowed the interference to continue, "despite the clearly stated requirement of §15.5(b) that operation is subject to the condition that no harmful interference is caused."

George Y. Wheeler of Holland and Knight said Ambient was studying the proposed FCC BPL guidelines and was "considering how to introduce them into its test program at an early date." In the meantime, Ambient notched out the 20-meter amateur band. "Initial results from field tests have shown feasibility of notching as a mitigation technique," Wheeler said, adding that full implementation would require hardware upgrades.

FCC SAYS PENDING 40M CHANGES WILL ENHANCE SPECTRUM EFFICIENCY

The FCC says pending changes in the 40-meter amateur band as a result of World Radiocommunication Conference 2003 (WRC-03) will improve spectrum efficiency. The Commission's remark came in a Notice of Proposed Rule Making (NPRM) in ET Docket 04-139, which seeks public comments on proposed rule changes to complete domestic implementation of various WRC-03 allocation decisions. The NPRM primarily affects Parts 2, 25 and 73 of the FCC's rules.

"We anticipate that administrations in Regions 1 and 3 will in the near future authorize phone emissions in the segment 7150-7200 kHz," the FCC predicted in the NPRM, "and we note the ARRL has requested that the [US] frequency segment for phone emissions be expanded to 7125-7300 kHz." The FCC said authorizing phone in the 7150-7200 kHz segment of the band would permit same-frequency US-to-DX contacts, resulting in increased spectrum efficiency. Amateurs in the Region 1 countries of Norway, Croatia and San Marino already have been granted access to 7100 to 7200 kHz on a secondary, non-interference basis.

Under the present regime, most amateur stations in Regions 1 and 3 use 7075-7100 kHz for phone. Since the US phone band is 7150 to 7300 kHz, this means most US-to-DX operation requires "split" operation. The band 7000-7300 kHz is allocated to the Amateur Service on a primary, exclusive basis in Region 2, but that is not the case in much of the rest of the world.

Effective next January 1, WRC-03 allocated the band 7100-7200 kHz to the Amateur Service in Regions 1 and 3 on a co-primary basis with broadcasting. After March 29, 2009, 7100-7200 kHz will be allocated to the Amateur Service on an exclusive basis throughout the world, except in some Region 1 and Region 3 countries.

"As such, Amateur Service use of this 100 kilohertz will be on a de facto secondary basis in Regions 1 and 3 until the broadcasting service vacates the band 7100-7200 kHz at the conclusion of Schedule B in 2009," the FCC noted. "This means that amateur stations in Regions 1 and 3 will shortly be permitted to transmit in the band 7100-7200 kHz, if they can find a frequency that is not being used by an international broadcast station."

The FCC said it doesn't think it needs to update its Part 97 Amateur Service rules until administrations in Regions 1 and 3 implement changes to allow amateurs to transmit in the 7100-7200 kHz segment.

"As a practical matter, we do not believe that the Amateur Service can make use of the band 7100-7200 kHz in Regions 1 and 3 in advance of HF broadcasting stations vacating the band because of the great power disparity between amateur stations and international broadcast stations," the FCC concluded.

The NPRM also addresses the deployment of Earth Exploration Satellite Service-Active (EESS-Active) spacecraft in the 70-cm band. The FCC said it "tentatively" finds that any secondary EESS-Active allocation at 432-438 MHz should be limited to federal government use. The Commission said operation in that allocation "should not cause harmful interference to, nor claim protection from, any other services allocated in the band in the United States, including the Amateur-Satellite service."

Comments in the proceeding are due July 16, with reply by August 2. Interested parties may view the entire NPRM, file comments and view comments filed in ET Docket 04-139 via the FCC's Electronic Comment Filing System (ECFS) <<<http://www.fcc.gov/cgb/ecfs/>>>.

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



20th Year



20th Year

JULY

20TH YEAR

2004



Notes From Your Editor

Okay, need your input. I have been laying out this portion of the newsletter in a triple column format for many years. The columnar format adds to readability of a printed newsletter. But we have now reached the point where many are getting the newsletter electronically. I don't know if those receiving the electronic format are printing it out or not. But while columnar format is great for a printed version, no columns is better for on screen reading. So, the question for the readership: do you prefer columns or no columns? Here's a mix. Let me know which you prefer.

IOTA Contest Jul 24-25 (see below for rules summary)



Email from N3RW

My friend Jack, KG6RWI, from Escondido CA and I have permission from the Nat'l Park Service to camp/hike/operate on Anacapa Island, IOTA REF# NA-144, 14, 15, 16 July 2004. Anacapa is the northern-most island of the Channel Islands chain. We arrive on the island about 1600 GMT, 14 July and depart the island about 2300 GMT, 16 July.

I shipped my FT-817 to Jack and he has been testing it powered by a solar-charging array to a 12 V battery. Antenna is a Hy-Gain AV-18 vertical. Considering that I'll be running only 5 W, I hope we do well considering the island is surrounded by the Pacific and is at an elevation of only 100 ft ASL.

When we leave Anacapa, we're heading for the Owens Valley to camp/hike/operate in the Eastern

Sierras. Last summer, Jack and I operated from both Zion and Bryce Canyon Nat'l Parks, UT then moved to Mammoth Mtn, CA. I used 50 ft of #16 as an inverted 'L' in the trees on both 17 & 20m cw. Nice to operate from 8000 ft ASL even at 5 W.

I don't mean to rush my life by but I can't wait for July!
73, Rob N3RW

"S"pecial "S"alute

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
argargano@comcast.net

New Zealand Drops Morse Requirement from the 17th of June

The requirement for Morse operating competency will be removed from the New Zealand syllabus with effect from the 17th of June 2004. Existing Limited Amateur Operator licensees are then deemed to be General Amateur Operator licensees, but there will be no requirement for licensees to change their call signs. Other related matters are being considered such as reciprocal licensing arrangements. The necessary changes to the New Zealand Radio Communications Regulations 2001 have been gazetted with effect from 17 June.

Official RSGB IOTA Contest Rules 2004

GENERAL The aim of the contest is to promote contacts between stations in qualifying IOTA island groups and the rest of the world and to encourage expeditions to IOTA islands.

WHEN 1200UTC Saturday 24 July to 1200UTC Sunday 25 July 2004.

BANDS AND MODES 3.5, 7, 14, 21 and 28MHz, CW and SSB. IARU band plans should be observed, with CW contacts being made only in the recognised CW ends of the bands (see RSGB Yearbook and similar sources, for recognised IARU bandplans). Contest-preferred segments should be observed, no operation to take place on 3560 - 3600, 3650 - 3700, 14060 - 14125 and 14300 - 14350kHz.

CATEGORIES

(a) Location:

Island (Any station operating from a qualifying island, as listed in the RSGB IOTA Directory. Island stations must ensure beforehand that the island from which they are operating is a valid qualifying island for IOTA. Any questions about the IOTA programme and island validity should be addressed to the IOTA Manager G3KMA (g3kma@dial.pipex.com))

World (any station not on a qualifying island).

(b) Operators:

Single operator

Single-operator Assisted (passive use (self-spotting not allowed) of DX spotting nets and DXCluster is allowed).

Multi-Operator (24-hour Mixed Mode only. Multi-ops are restricted to a maximum of two transceivers, the second station to be used to find and call other stations only if the station is a new multiplier. It must not be used to solicit other contacts, e.g. by calling "CQ" or "QRZ". Any non-multiplier QSOs made accidentally on the second station should be logged, but scored as zero points. Multi-ops may make passive use (self spotting not allowed) of DX spotting nets and DX Cluster. Multi-operator entrants should include a full list of operators with their entry).

(c) Modes:

CW

SSB

Mixed-mode (multi-operator entries must be Mixed Mode).

(d) Operating Time:

24 hours

12 hours (Multi-operator entries must be 24 hours. In the 12-hour categories, operation need not be for one continuous 12-hour period but, once operation has commenced, off periods should be a minimum of 60 minutes.)

(e) Power: (Any station not indicating transmitter power will be classified as High Power):

High-power

Low power (maximum 100 watts output)

QRP (maximum 5 watts output).

EXCHANGE

Send RS(T) and serial number starting from 001, plus IOTA reference number if applicable (island stations MUST include the IOTA reference as part of their exchange with every QSO). Do not use separate numbering systems for CW and SSB. Stations may be contacted on both CW and SSB on each band.

SCORING

(a) QSO Points - Contacts with own IOTA reference count 3 points and with other IOTA islands 15 points. Contacts with non-island stations count 3 points.

(b) Multiplier - The multiplier is the total of different IOTA references contacted on each band on CW, plus the total of different IOTA references contacted on each band on SSB. Multi-op stations may not work members of their own group for multiplier credit.

(c) Total Score - The score is the total of QSO points on all bands added together, multiplied by the total of multipliers.

LOGS

1. Electronic submission of logs by disc or e-mail is encouraged - and in fact required - for all high scoring entrants and all who use a computer to log or prepare the logs. Electronic entries are preferred, preferably in Cabrillo format (a definition of Cabrillo, as applied to the IOTA contest, can be found on the RSGB HFCC website). For other electronic log formats, include both log and summary files. Always ensure that your logging software produces a log file which correctly contains all the QSO data, and that the summary file clearly indicates your category. However, if you prepare your log electronically by any means (eg Excel, Word) then please send the electronic version, as it reduces the need for retyping data.

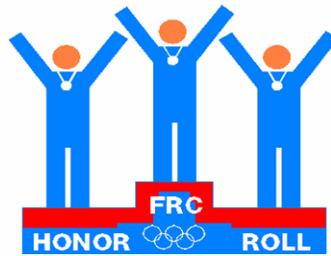
2. Logs must show: Time, Callsign, Band, Mode, RST / serial number / IOTA reference sent, RST / serial number / IOTA reference received. Please ensure you send a single log in order of sent serial number. Do not send separate logs for each band. Logs from IOTA stations must state their island name and IOTA reference number.

3. Entries can be emailed to iota.logs@rsgb.org and should be sent as a normal attachment to the e-mail. In the subject line of your e-mail message, please include your contest callsign.

4. Postal (paper and disc) entries should be addressed to: RSGB IOTA Contest, PO Box 9, Potters Bar, Herts EN6 3RH, England.

5. The closing date is for mailing of logs is 1 September 2004.

PENALTIES Points may be deducted, or entrants disqualified, for violation of the rules or the spirit of the contest. This includes, for example, refusal by IOTA island stations to make contacts with their own country when requested, use of a third party to make contacts on a list or net, working CW multipliers on an SSB frequency, or not giving the IOTA reference for every contact. The decision of the IOTA Contest Manager and RSGB HF Contests Committee is final in all matters of dispute.



JULY **CONDUCTED by N2SS** **2004**

WARC BANDS

<u>30 Meters</u>	<u>17 Meters</u>	<u>12 Meters</u>
K2FL.. 329	K2FL...335	N2TK ..327
N2TK325	N2TK 334	K2FL..... 326
N2LT313	N2LT 331	N2LT..... 319
W3BGN305	W3CF 329	W3BGN... 310
K2RW296	K2RW 324	K2RW 300
W2YC287	W3BGN ... 323	N2SS..... 300
W8FJ286	N2SS 319	W3CF 282
N2SS280	K2PS 294	W2YC 272
K2PS275	W2YC 292	K2PS..... 265
W2UP227	W8FJ 290	W2UP 237
K3II.....222	W2UP..... 274	N1RK..... 230
W2LE.....212	N1RK 253	W8FJ..... 226
N3RD.....208	KQ3F..... 240	KQ3F 213
AA2WN...171	K3II 237	K3II..... 202
KQ3F161	NZ3O 214	K2NJ..... 190
NZ3O150	W2LE..... 202	W2YR 186
W2YR.....130	W2YR 194	W2LE 176
AB2E123	K2NJ 179	N3KN 176
K2NJ.....113	K2JF 168	NZ3O 167
K2JF.....112	NA2U 162	NA2U 154
NA2U.....105	N3KN 147	K2JF 135
N1RK.....86	K3ND 119	AB2E 92
N3KN.....85	AA2WN ... 116	K3GYS 30
K3ND.....76	AB2E..... 103	N2VW..... 27
N2VW.....71	K3GYS..... 85	AA2WN..... 20
W3CF.....55	N2VW 65	W2CG..... 1
K3GYS17		

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

Rules for FRC Honor Roll Listings.

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

160 Meters

W3BGN291	K2PS 102
AA1K284	K2RW 93
N2LT244	AB2E 87
N2TK.....240	W2CG 85
K3SX223	W2YR..... 80
W8FJ199	N2SS 78
NO2R.....197	N2VW..... 77
W2UP183	W3CF..... 77
K3JJG181	K3NL 70
NA2U175	K2NJ 59
K3NZ.....172	KQ3F 47
W2YC.....165	N1RK..... 43
K3NM.....156	AA2WN..... 36
N3RS156	K2JF..... 34
K3II149	W2LE..... 28
K2FL141	NZ3O 13
K3ND136	K3GYS 12

W3BGN continues as the undisputed Top of Top Band.

DIGITAL

W2UP.....335	W2YR..... 122
N2LT329	K2JF..... 113
K2PS.....275	W2LE..... 85
W3SB268	N2SS 53
K2RW.....266	N1RK..... 42
K2NJ.....235	KQ3F 26
W2YC.....229	K3GYS 15
AA2WN.....187	W8FJ..... 12
N3KN165	

MOBILE DX

W2YC276	K3GYS 143
AA1K266	AA2WN..... 131
N2SS.....234	W2YR..... 21
K2JF150	

1.5K Club

K2FL..... 1706	K2NJ.....1406
W3BGN 1694	W3CF1403
N2TK 1685	AA2WN.....1369
N2LT..... 1676	K2JF1350
W2UP 1656	NA2U1335
K2RW 1610	W2CG.....1305
W8FJ 1588	N1RK.....1280
N3RS..... 1581	N2VW1258
W2YC 1527	K3CT1177
N2SS 1514	W2LE1141
NO2R..... 1511	W2YR.....1138
K2PS 1509	W3SB1132
K3ND 1496	K3NM.....1107
N3RD 1492	NZ3O.....1069
KQ3F..... 1429	N3KN1065
.....	AB2E.....1055

Islands On The Air

K2FL.....971	NZ3O.....259
N2SS 794	N2VW259
W2YC 574	W3CF253
W8FJ 573	W2YR.....230
N1RK 534	K3GYS202

6 METER DXCC

N2LT..... 106	N1RK.....57
K2NJ 100	N2SS.....55
AA1K 97	K2RW.....42
K2JF 94	W2YR.....41
K2PS 81	W2YC.....16
N3KN 61	AA2WN.....15
K3OO 60	K3GYS10



THE FRANKFORD RADIO CLUB NEWSLETTER

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



Affiliated Club

The Frankford Radio Club

Club Officers

President, **K3NM**, Joe Brue.....570-992-6890
Vice Pres, **W8FJ**, John Schrader 610-279-6097
Secretary, **K3ZV**, John Lindmeier.....215-632-2919
Treasurer, **KQ2M**, Bob Shohet.....203-270-8456

Email: k3nm@ptd.net
Email: w8fj@aol.com
Email: lindmeie@bellatlantic.net
Email: kq2m@earthlink.net

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
Membership

Newsletter & Roster

Editor, **KQ3F**, Joe Stepansky 717-657-9792
Printing, **K3ZV**, John Lindmeier856-768-5348

Email: kq3f@comcast.net

Repeater - 2 meters, 147.27/147.87 Output PL tone, 114.8

Home Page - www.gofrc.org

Meetings

Meetings are held on the 2nd Tuesday of each month (Sep through May) at 8 PM at the University of the Sciences, Philadelphia. Summer meetings are held at member homes (one Saturday/ Sunday per month).

Packet Cluster Contest/DX System

144.930 W3FRC
145.010 N3ED
145.650 K2TD
145.530 K3WW
145.530 AA1K
145.570 WT3Q
145.570 K2TW
145.590 N2NT
144.950 K3GYS
145.730 N2BIM
147.495 W3MM
145.670 W3PP
TBA W2JT

Telnet DX Cluster

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