



THE FRANKFORD RADIO CLUB NEWSLETTER

PROFICIENCY THROUGH COMPETITION

CALENDAR

June 2009:

- 9 Rexy Meeting B, 8 PM**
- 18 T.I.T.S. Meeting, Noon**
- 20-21 All Asia DX Test, CW
- 23 Rexy Meeting B, 8 PM**
- 27-28 ARRL Field Day

July 2009:

- 4 FRC West Meeting (see p. 2)**
- 11-12 IARU HF DX Test
- 12 FRC Summer Mtg, N3RD**
- 14 REXY Meeting B, 8 PM**
- 16 T.I.T.S. Meeting, Noon**
- 28 REXY Meeting B, 8 PM**

August 2009:

- 16 FRC Summer Mtg, K2AX**

CHANGES

Email

N2VW—Jack Imhof
ratione@verizon.net

New Address

K3GYS—Gus Nicolella
792 Monte Cristo Boulevard
Tierra Verde, Florida 33715-2007
k3gys@tampabay.rr.com

W3AP—Norwood Lowry
928 North Penn Drive
Wernersville, PA 19565-2036

NT4TS—Laing Batchler (x KB3TS)
2602 NW 15th St.
Cape Coral, FL 33993

Deadline for July issue:

Sunday, June 28, 2009

President's Column

Summer greetings to you all! It is now time to actually accomplish all those outdoor projects you thought about during the winter months. Make your plans and get started, because the good outdoor weather will go by quickly. If you have technical questions, air them on the reflector. There's a wealth of knowledge in this club so use it. If you need manpower assistance, ask for it, but plan ahead and ask for it well in advance so people can plan to be there to help.

There are currently two summer meetings planned, one at N3RD and one at K2AX. The dates are posted in the newsletter. There is certainly room for one more meeting if someone wishes to host one.

I am looking for suggestions about our website. Obviously, club members with the needed expertise don't have the time needed to do the job properly. I think the time has come to hire someone to do this important job for us. We can certainly afford to pay for it.

Best wishes to you all. I hope to work you or go head to head with you during the summer contest season, but remember that now is the time to get ready for the winter season. See you at the summer meetings.

Go FRC!

73, John, W8FJ...

Summer Meetings



Sunday, July 12—Dave, N3RD, Sponsored by Team N3RS
Starts at 1 PM. Map and directions in the July newsletter.

Sunday, August 16—Mark, K2AX.
Starts at 1 PM. Map and directions in the August newsletter

MEETINGS

T.I.T.S. meeting—The Trexlertown International Transmitting Society meets on Thursday, June 18 at 12:00 noon. Location is the Hometown Diner on Route 222 in Trexlertown..

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

**FRC-West Meeting
Harrisburg Radio Amateurs Club Hamfest
July 4, 2009
Bressler, PA**

The **FRC-West** meeting will be at the Harrisburg Radio Amateurs Club Hamfest, Saturday, July 4 at 10:30 AM at the Emerick Cibort Park in Bressler, PA.

This is the 37th Annual “Firecracker” Hamfest event that is well attended by hams from throughout the **Frankford Radio Club** membership area. It is a great opportunity for current and prospective **FRC** members to meet.

More information about the hamfest and directions can be found by visiting the HRAC website at <http://hrac.tripod.com>

2009 FRC Fund Drive

The 2009 **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.

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

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

Donations as of June 6, 2009

AA2WN	K3MD/N3PVR	N2TK	W2LE	W3KB
AA3B	K3PH	N2VW	W2RD	W3MF
AB2IO	K3TEJ	N3KR	W2UDT	W3MM/W3RAT
K2GN	KD2RE	N3YW	W2YC	W3SOH
K2UT	KD3TB	N8NA	W2YR	WA3LRO (CA)
K3ATO	KQ2M	W0MHK	W3BGN	WA3RHW
K3FMQ	KQ3F	W2CG	W3CF	WB3FIZ
K3GYS	KV2M	W2GD	W3EA	WB4FDT
K3II	N2CQ	W2GJ/C6APR	W3FV	WE3C
				WQ3E

FRC 2008-2009 SCORE RANKING

Rank	Call sign	CQ SSB	CQ CW	ARRL SSB	ARRL CW	Total
1	N2NT	4,787,012	11,169,870			15,956,882
2	K3WW	3,453,630	5,321,970	2,395,140	4,471,020	15,641,760
3	AA3B	2,296,576	7,056,400	2,008,230	3,484,698	14,845,904
4	W2GD	2,580,190	9,020,000	-	2,782,545	14,382,736
5	K2NG		4,079,835	5,748,204	4,145,592	13,973,631
6	AA1K	3,248,640	3,330,740	2,459,424	3,775,614	12,814,418
7	K3CT	1,652,603	5,255,178	298,080	3,888,540	11,094,401
8	WE3C	3,305,206	3,824,074	1,360,152	2,331,042	10,820,474
9	N2TK	4,809,841	364,266	4,452,726		9,626,833
10	W3BGN	2,937,344	2,817,654	1,601,212	2,070,000	9,426,210
11	K3TEJ	88,808	5,255,178	137,532	3,355,056	8,836,574
12	W3FV	4,809,841	1,912,037	680,076	1,165,521	8,567,475
13	N3RS	1,796,222	3,368,950	1,365,428	1,953,096	8,483,696
14	W2OX	4,067,056	250,808	1,754,000	2,220,030	8,291,894
15	K9RS	1,855,174	2,944,006	1,081,596	2,234,048	8,114,824
16	W3PP	1,038,489	3,661,824	881,144	1,907,424	7,488,881
17	N2LT	65,554	3,890,000		3,029,860	6,985,414
18	N2MM	1,986,924	2,424,176		2,467,680	6,878,780
19	N3AD	3,002,720	3,838,498			6,841,218
20	NO2R	927,587	3,660,473	800,606	1,035,000	6,423,666
21	K3NM	4,067,056	53,120	1,754,000	512,820	6,386,996
22	W1GD	1,555,610	1,942,016	941,220	1,543,796	5,982,642
23	K3MD	947,240	2,111,508	630,315	1,804,188	5,493,251
24	NN3Q	1,652,603	1,912,037	680,076	1,165,521	5,410,237
25	KQ3F	1,652,603	1,912,037	680,076	1,165,521	5,410,237
26	K2DM	711,774	4,150,000		546,776	5,408,550
27	K3VA		5,255,178			5,255,178
28	K3PH	531,290	2,597,058	1,341,432	525,360	4,995,140
29	K3OO	1,294,372	2,542,068	209,364	774,900	4,820,704
30	W2CG	908,952	1,895,960	828,828	1,118,650	4,752,390
31	N3BNA	2,188,091	1,593,220	167,688	421,289	4,370,288
32	W8FJ	898,111	1,684,475	714,234	976,548	4,273,368
33	N2WKS	1,086,085	1,634,160	427,980	1,105,516	4,253,741
34	N3NA	898,111	1,684,475	682,714	976,548	4,241,848
35	N3ED	898,111	1,684,475	682,714	976,548	4,241,848
36	K3IPK	731,080	1,684,475	585,188	1,238,000	4,238,743
37	KF3B		1,912,037	1,114,476	1,165,521	4,192,034
38	KQ2M	1,312,292	1,039,104	1,031,625	787,680	4,170,701
39	N2RM	1,815,456			2,351,666	4,167,122
40	N3ZA	1,307,000	1,017,126	925,806	739,200	3,989,132
41	K3WI	589,656	1,830,912	557,976	1,002,912	3,981,456
42	K3ND	1,066,046	1,190,040	601,000	964,650	3,821,736
43	K2TW	454,476	1,408,827	800,606	1,035,000	3,698,909
44	WB4FDT		1,830,912	881,144	953,712	3,665,768
45	NE3F	1,142,206	1,017,506	630,222	842,578	3,632,512
46	N3DXX	927,587	1,472,003		1,117,024	3,516,614
47	W3CF	898,111	1,049,484	685,171	776,168	3,408,934
48	W2RD	1,483,884	812,646	913,360		3,209,890
49	N2VW	2,396,439		313,200	437,896	3,147,535
50	W2UP	617,768	1,382,376		1,076,376	3,076,520

FRC 2008-2009 SCORE RANKING

Rank	Call sign	CQ SSB	CQ CW	ARRL SSB	ARRL CW	Total
51	K2PS		1,144,206	812,214	1,113,750	3,070,170
52	WA2VYA	2,396,439			572,286	2,968,725
53	K2SG			991,287	1,922,612	2,913,899
54	W2IRT	1,066,332		830,760	984,456	2,881,548
55	W2YC	747,636	704,369	603,780	801,192	2,856,977
56	N3RD	898,111		682,714	976,548	2,557,373
57	W2RQ	1,134,565	1,401,286			2,535,851
58	W3MF	1,062,580		1,341,432	47,124	2,451,136
59	W6XR	332,270	1,154,370		921,552	2,408,192
60	W2LE	484,652	908,800	352,800	658,668	2,404,920
61	W2WAS	2,396,439				2,396,439
62	K3PP		642,978	1,571,130	154,800	2,368,908
63	NA2U	1,385,394	972,400			2,357,794
64	KQ3V	1,652,603		680,076		2,332,679
65	W3CC	1,167,838	432,552	701,080		2,301,470
66	WT3Q	2,188,091	36,566			2,224,657
67	K3ZV	907,728			1,175,833	2,083,561
68	W3KB		852,302	402,528	763,876	2,018,706
69	W2GJ	1,038,489			953,712	1,992,201
70	W2EN	454,476	947,980		559,325	1,961,781
71	K2TTT		1,944,800			1,944,800
72	N2SR	898,111			976,548	1,874,659
73	K3ATO	571,103	508,753	315,111	421,289	1,816,256
74	AB3AH	571,103	508,753	315,111	421,289	1,816,256
75	K2GN	686,908	696,789	357,504	62,776	1,803,977
76	KD2HE	13,432	1,472,003	55,224	119,784	1,660,443
77	K2CJ	752,400	405,440	205,350	264,120	1,627,310
78	W3GK	292,824	632,960	116,046	465,060	1,506,890
79	WA3WLH	571,103	508,753		421,289	1,501,145
80	N2CQ	373,818	704,369		400,596	1,478,783
81	AA2WN	373,818	704,369		400,596	1,478,783
82	W0MHK	373,818	704,369		400,596	1,478,783
83	N2AA		1,401,286			1,401,286
84	N3GNW	583,919	217,770	350,540	143,100	1,295,329
85	WB3FIZ	59,451	645,428		519,120	1,223,999
86	W3EA	847,656		300,960	70,244	1,218,860
87	N3RJ	407,860	527,000	239,700		1,174,560
88	N2NC	1,134,565				1,134,565
89	WM2H	1,134,565				1,134,565
90	N2NL	1,134,565				1,134,565
91	W2YR		501,616	3,564	612,612	1,117,792
92	KA2NDX		704,369		400,596	1,104,965
93	N3MX		21,916	612,882	404,448	1,039,246
94	N1RK	271,920			683,046	954,966
95	NW3Y				953,712	953,712
96	W2NO		947,980			947,980
97	K3FT	477,882		437,955		915,837
98	KD3TB	422,878	141,645	196,854	153,816	915,193
99	WA3LRO	898,111				898,111
100	N3OW	571,103		315,111		886,214

FRC 2008-2009 SCORE RANKING

Rank	Call sign	CQ SSB	CQ CW	ARRL SSB	ARRL CW	Total
101	N3RRR			881,144		881,144
102	W3IZ	530,116	134,680		177,210	842,006
103	N3YW	588,540		236,544		825,084
104	WQ2N	96,714	711,144			807,858
105	KS3F			315,111	421,289	736,400
106	N3FTI			680,076		680,076
107	NM3E			680,076		680,076
108	N2BA		646,092			646,092
109	KD3RF	422,878		98,427	76,908	598,213
110	K3FMQ	422,878		98,427	76,908	598,213
111	KC2NB	321,226	46,748	128,520	88,424	584,918
112	W2VQ	193,428	355,572			549,000
113	K2AX	543,840		1		543,841
114	KC3WX		537,552			537,552
115	K2QPN	85,329	306,272		145,548	537,149
116	WU3M		508,753			508,753
117	WE3E		508,753			508,753
118	W3FVT	171,360	104,960	122,610	71,148	470,078
119	AB2IO			427,980		427,980
120	CX6VM	409,080				409,080
121	KV2M	271,920		117,912		389,832
122	K2SQS	280,370		100,368		380,738
123	W3RJ		376,420			376,420
124	K3II		220,424		132,258	352,682
125	NT3V			315,111		315,111
126	N3NR	115,878	3,096	18,156	147,060	284,190
127	W2REH		281,436			281,436
128	N3RG	271,920				271,920
129	KC2TN	271,920				271,920
130	W2RDS	271,920				271,920
131	W2OF	271,920				271,920
132	W2MC	271,920				271,920
133	W3MM	271,920				271,920
134	K3OX	244,223				244,223
135	N3RW	106,582	130,758			237,340
136	K3SWZ			228,726		228,726
137	W3BG				211,932	211,932
138	W3SQ	41,548	78,000	27,000	60,000	206,548
139	K3YD				202,224	202,224
140	NB2P	160,613				160,613
141	AB2E		133,408	1		133,409
142	W3TUA		60,048		72,796	132,844
143	N2SS	131,922				131,922
144	WA3RHW		35,056	95,892		130,948
145	N2VM	31,472		18,216		49,688
146	K3ZA			-	42,066	42,066
147	WA2VUN			20,520		20,520
148	N9GG		11,766		4,416	16,182
149	K3GYS				6,150	6,150

Please contact **K3WW** ASAP with any missing or incorrect scores.

Riley Hollingsworth to Speak at Lehigh University

The Delaware-Lehigh Amateur Radio Club (DLARC), Nazareth, PA, will present "An Evening with Riley Hollingsworth, K4ZDH, on July 9, 2009, at Lehigh University, Bethlehem, PA.

Lehigh University - Packard Laboratory Building
July 9, 2009 7:30 pm.

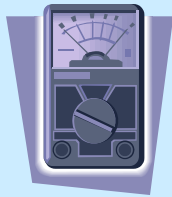
Tickets - Advance sale \$3.00
At the Door \$5.00

Advance Ticket are available by mail. Send Check and Self Addressed #10 (4" X 9") envelope to:

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Antenna Season is Here!!!

Work Wanted:

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

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

Reasonable hourly rates and scheduling that meets your needs.

Contact: John Crovelli W2GD

w2gd@hotmail.com

Phone: 908 391 5611 (Mobile)

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The Contesting Compendium is up and running - a wiki on radiosport! Created by N4ZR, KM3T, K5TR, K5ZD, and N5KO, the objective is, "to make this into a one-stop source for information on contesting, and to ensure that all the good stuff that is now scattered across the Internet doesn't succumb to the ravages of time, hard drive failures, or other accidents of history." Here are the instructions for Reading and Browsing as well as How to Contribute. Carl K9LA has agreed to be the site's Propagation editor - you'll recognize him as a former NCJ editor, too. More information is available in this contesting.com article. Well done, you guys. (Thanks, Pete N4ZR)

The latest Contest Visualizer (based on the WA7BNM perpetual contest calendar) is available for download from Bob KØRC. This Excel 2003 spreadsheet-based tool will show you all of the 2009 contests in a graphic display and will reveal the overlapping times of these events. It also performs UTC to Local time conversion for your convenience.

Scott N3FJP has updated five of his contest logging programs to include the Cabrillo file EMAIL tag. These new versions will be a great help to new contesters in getting their logs submitted and their call signs in the results. The new versions of the programs support the CQ WW DX and WW DX Network, CQ 160 Meter, and CQ WPX and WPX Network contests. (Thanks, Randy K5ZD)

Antenna manufacturer Force 12 has a new Web site up and running after the company changing hands over the past few months. It appears to be well-organized and has a complete listing of their product line. (Thanks, Jim N2EA)

90 Minutes - that's reported to be the length of a human's natural REM-sleep cycle. By arranging your sleep times to be about 90 minutes long, you'll wake up more refreshed than waking up part way through.

A must have for any balun-winder or EMI-unwinder is the Fair-Rite Products Corp catalog. Linked at the top of the page, under the 'Technical' tab are two excellent papers on using ferrite materials for EMI suppression and broadband transformers. The catalog has a lot of great information on ferrites, along with complete information on all their cores and beads.

Three great ham-friendly projects appeared on the Instructables Web site this week. First up is a set of instructions on sharpening your drill bits using a drill sharpening guide. This always seems like such a good idea, but doing it right is not trivial. Then, for very little expense, a multiple-output bench power supply can be yours by converting an ATX power supply from an old PC. Finally, who could resist an article about making things out of those metal Altoid project-boxes, er, candy tins?

Can you use J-B Weld epoxy in strong RF fields? According to numerous reports, while you can't roller skate in a buffalo herd, you can use J-B Weld to fix (and even build) antenna parts. It claims "liquid steel" as an ingredient, but it is non-conductive and is apparently not lossy, either.

Another Web site to have in your folder of Technical Reference bookmarks is this compendium of connector pin-outs. I used to have a little pocket book of connector info, but this is 10 dB better. (Thanks, Dave N2NL)

Les W2LK turned up an on-line version of the AB-105 tower instruction manual. There is a LOT of this heavy-duty tower out there holding up amateur antennas. Another on-line resource has been provided by David K2DBK as he has posted a scanned version of a classic 1966 Coaxial Connector Handbook by Jim Fisk W1HTY. Much of that material is still useful today.

<http://www.lz1jz.com>



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Bob WA1Z is taking over the administration of the Super Check Partial database from Randy, K5ZD. Thanks to Randy for providing the contesting community with top notch support of the SCP database over the last few years. There's now a dedicated email address for submitting logs to the database - logs@supercheckpartial.com. Blocked call requests can be submitted to the new email address as well. Bob has the existing blocked calls list, so only new requests are necessary. The next update will be released sometime around September.

Fans of the World Radiosport Team Championship were excited to hear the news that the WRTC-2010 Committee's Web site is up and running! Check it out - more details for the competition, to be held in the Moscow area in July 2010, will be posted as they are available! (Thanks, Harry RA3AUU)

Need material for a contesting presentation? Here are a pair contributed by Dave K1TTT ("Introduction to Contesting") and Bob KØRC on RTTY Contesting.

Set that clock! Phil AB7RW/V31RW reports a surprising number of QSL requests coming in with serious time errors. Time errors can cause NIL (Not In Log) results in log checking - or at least complicate the log checking process for your log and that is rarely a good thing. Furthermore, when you upload your log to Logbook Of the World, time misalignment can keep you from getting credit for your QSOs!

"How Much Does Your SWR Cost You" by Stan Gibilisco W1FV, in the January 1979 issue of *QST* is a classic article showing the effect of SWR on line loss. One of the graphs shows "extra loss" given SWR at the load and transmitter and another shows loss based on SWR at the load and matched-line loss. This is also nicely presented in the Bird Technology Group application note "Cable Loss Masking Effect". Issues of *QST* prior to 2005 are available on-line to all ARRL members! (Thanks, Paul W9AC and Glen K9STH)

When building sloping dipole arrays such as those described in the ARRL Antenna Book, is it really necessary to switch both conductors of the feed lines? "Absolutely," is the Towertalk reflector consensus! The arrays require that the reflectors not be connected to the driven element in any way. Tying all of the shields together, such as if a common remote RF switch is used, will cause gross pattern distortion from the additional conductors. By using the 3/8-wavelength feed lines and switching both conductors, you will insure that the un-selected dipoles will act as reflectors.

Dallas Lankford is well-known in the SWL and BC DXing community - his Web site he has a lot interesting articles on noise reduction receiving antennas for MW and SW. He is mostly an SWL, but the articles are very thoughtful, with a lot of good points. (Thanks, Larry N6NC)

Loctite Extend Rust Treatment got a strong endorsement from "Click and Clack - the Tappet Brothers" on the April 29th show so I thought I'd pass that morsel along for the summer painting season.

As a construction electrician with considerable experience in the field, Chuck KI9A recommends a Kellum-type cable grip, with a swivel head, for cable pulls through conduit. Make certain the cables grip fits the wires, without much slack, use some thin tie-wire to help secure it, then, wrap with several wraps of electrical tape. Use liberal amounts of wire lubricant. If you plan on adding anything to the run later, pull a #12 stranded THHN wire in, to use as a pull wire later. Do not use rope or string, as it will chafe and abrade its way into the cables as you pull additional cables later. For the lubricant, Roger K8RI directs us towards "Wire Soap", available at hardware and home improvement stores.

The legendary ham thrift and ingenuity meet in this clever adaptation of a common kitchen sink strainer to antenna ground radial systems, described in this eham.net article.

If you're building a tower and a leg of that next section is flared just a bit too much, rather than hammer on it, Dave NN5K says, "Use a heavy nylon ratchet strap. Just put it around the section that needs to be squeezed a bit and start cranking on it. When the tension is just right the tower section will slide right on." It works on Rohn 25 through 55 according to Dave.

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Oops! Left the SWR Analyzer on and ran the batteries down again? Insert a dummy plug for the external power source into the jack, disabling the internal battery supply. Even if you press the analyzer ON switch by accident it won't turn on until you pull the plug out of the jack. (Thanks, Rob K5UJ)

For reference, so to speak, the units dBd mean "decibels with respect to the maximum gain of a dipole in free space". The last three words are important because if the reference antenna (the dipole) is NOT in free-space, then one must also specify that the antenna whose gain is being compared to the dipole is installed at the same mean height over the same reflecting surface. So "free-space dBd" is a little redundedundant, but it's sometimes important to make sure apples are being compared with apples.

Plan B

Lots of presentations on contesting stress the importance of planning. Plan your operating strategy, sleep time, band changes, and so forth. This is all very well and good, but as the generals know, no plan survives contact with the enemy! So it is with radiosport as the conditions rarely are exactly as expected, the contact rate doesn't make your choices clear and unambiguous, and maybe the equipment gives you an unwelcome surprise or two.

Now what? Pitch the plans out the window and go for it - whatever it is? The best-prepared operators will go to that backup plan, maybe one of several. After all, it should hardly be surprising that circumstances may present you with surprises. As the saying goes, "In theory, theory and practice are the same. In practice, theory and practice are different!"

Where does Plan B come from? It comes from remembering what happened during the last contest and that's why you write down what happened last time - so you'll remember! When the antenna switch developed an open position, what did you do? Would that be a good thing to plan for? The best, of course, is to prevent the problem in the first place with a little preventative maintenance, but given our finite resources, there just might be a failure we don't foresee or forestall.

The problem might not be in the shack - there might be an ionospheric disturbance or maybe an unforeseen sunspot might rotate into view. Either changes the bands and maybe operating strategy. It's a good idea to ask yourself what you would do if the conditions improved or degraded during the weekend. How would you change your operating strategy or sleep time? Would you shift emphasis on the high or low bands? What about changing antenna direction through the day? There are literally hundreds of questions to answer.

I know we have lots of non-contesting readership, as well, that need a Plan B just as much as testers do, if not more! Every net should have a backup frequency, in case the band is closed or crowded. Never make a schedule without having a second or third frequency and a schedule for using them. And give them a try every once in a while to see if Plan B would actually work! Emcomm groups frequently run exercises using simplex communications - no repeaters - to make sure they can get the job done with little supporting technology.

The real benefit of Plan B however, may not just be in having a backup, but in considering the possibilities of what can go wrong with Plan A! A very useful exercise for project planning is to consider reasons why the project might fail. Certainly, it's important to have confidence that Plan A will work and work well, but a plan that doesn't harden itself against the slings and arrows of everyday life depends on everything being "just right". How often does that happen?

Both populations can mitigate against the need to go to Plan B by reducing the probability of surprises. Testers can study the bands, propagation forecasts, clean and maintain equipment, and so forth. A problem found and fixed before the contest is that many more points in your pocket! The non-tester can avail themselves of propagation forecasts, too, as well as the numerous on-line contest calendars that provide plenty of warning about band loading in the future. After all, not planning for solar disturbances that occur on 27-day intervals or being surprised by a contest that's run on the first weekend of a month for more than 50 years...well, maybe Plan A needed a little polishing.

I really hate those maddening "surprises" that make hash out of my careful plans, but Mother Nature and Mister Murphy work hand-in-hand to keep me on my toes. The only defense I have is preparation and Plan B. How about you? 73, Ward N0AX



THE FRANKFORD RADIO CLUB NEWSLETTER

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Meetings

Meetings are held on the 2nd Tuesday of each month (Sep through May) at 8 PM at Rexy's, 700 Black Horse Pike, Mt. Ephraim, NJ. Summer meetings are held at member homes (one Saturday/Sunday per month).

Packet Cluster Contest/DX System

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