

Vol. 2010, #12
December 2010



NORTHERN KENTUCKY AMATEUR RADIO CLUB

The Feedline



NKARC/ KD7ARET Christmas Dinner

Northern Kentucky Amateur Radio Club and KD7ARET members and their guests are invited to attend the annual Christmas dinner Monday, December 13 at 6:30. **Please note that the location is different from the past several years.** The dinner will be held at the Golden Corral at 4770 Houston Rd. in Florence, in front of Lowes.

Above, Dave Core K8WDA demonstrates the use of a traditional grid dip meter at the November meeting of the Northern Kentucky Amateur Radio Club. This was the annual "Show'n Tell" meeting, and several members brought items of interest or curiosity, from a vintage ARRL Handbook to a Ten-Tec regenerative receiver kit.

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Dates to Remember:

Dec. 11,12 – [ARRL 10-meter contest](#)
Dec. 13–NKARC Christmas dinner
Jan. 1 – Deadline for Feedline submissions
Jan. 10 – NKARC membership meeting

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Repeaters (K4CO): 147.255+ and 444.350+ Edgewood (PL 123.0), 147.375+ Walton, 146.895+ Highland Heights. The 147.255 repeater is a linked Echolink node, accessible via N4IJS-R.

NKARC Net: Tuesdays, 8:30 PM on the 147.255 repeater

VE Testing: Testing sessions are held by appointment only on the 2nd Monday of each month, prior to the NKARC membership meeting. Testing begins at 6:00 pm. To make an appointment, contact Lyle Hamilton at ab8sh@arrl.net or tel. 513-315-4032

NKARC Web Site: <http://www.k4co.org>

NKARC Membership Meetings: 2nd Monday of each month at 7:30 pm at the [Hilltop Church of Christ](#), 5300 Taylor Mill Rd (Ky. 16), Taylor Mill, KY. Visitors are always welcome!

The Feedline is published monthly by and for the members of the Northern Kentucky Amateur Radio Club. It is distributed via direct email to current NKARC members. **If you are a member in good standing but are not receiving your copy, please notify the Feedline editor.** Permission is hereby granted to any non-profit amateur radio group to quote or reprint from this publication provided appropriate source credit is given. Submissions, ad-

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Top of the Tower

End of the year already!?!?!

Wow, hard to believe that Thanksgiving is over, the annual Christmas Dinner is less than two weeks away, Christmas is just around the corner, and the New Year is less than a month away. Seems like Field Day was just yesterday, doesn't it?

2010 was a good year for our Club. We had some great presentations by several folks, including some special guests from the ARRL and WARN. Had a rewarding Field Day, helped many people get their upgrades and helped many more become newly licensed Hams. We learned about scanners, biological terrorism, and a host of other interesting topics. I am confident that 2011 will be an even better year for us all.

Is there something you would like to see your Club do or do differently in 2011? If so, feel free to drop me a line or give me a shout (either on the radio or phone). I would love to you hear your thoughts!

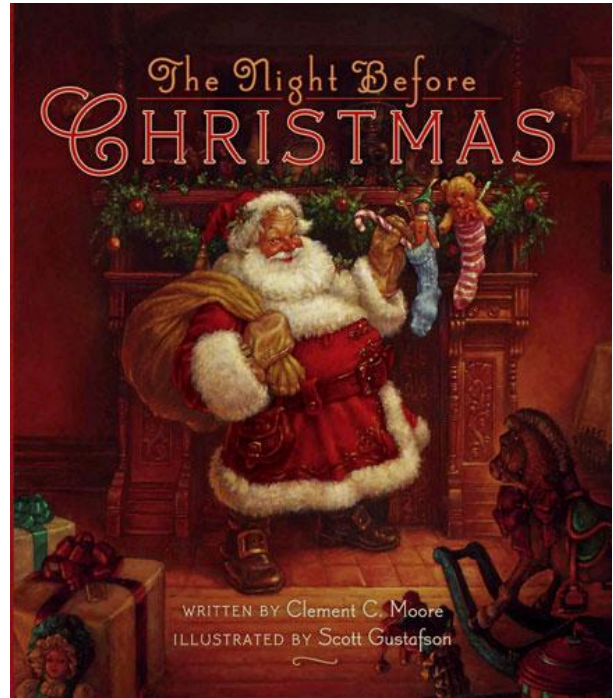
Remember our Christmas Dinner coming up on Monday, 12/13 (more information can be found elsewhere in this Feedline or online at www.k4co.org). We will be having door prizes, some awards, and, most importantly, a great time.

I will leave you all with an interesting twist on "Twas the Night Before Christmas"... Enjoy!

Merry Christmas and Happy New Year!

73 for now,

Robert Kluck – N4IJS



'Twas the Night Before Christmas' as written by a technical writer for a firm that does Government contracting...

Twas the nocturnal segment of the diurnal period preceding the annual Yuletide celebration and throughout our place of residence, kinetic activity was not in evidence among the possessors of this potential, including that species of domestic rodent known as *Mus musculus*. Hosiery was meticulously suspended from the forward edge of the wood burning caloric apparatus, pursuant to our anticipatory pleasure regarding an imminent visitation from an eccentric philanthropist among whose folkloric appellations is the honorific title of St. Nicholas.

The prepubescent siblings, comfortably ensconced in their respective accommodations of repose, were experiencing subconscious visual hallucinations of variegated fruit confections moving rhythmically through their cerebrums. My conjugal

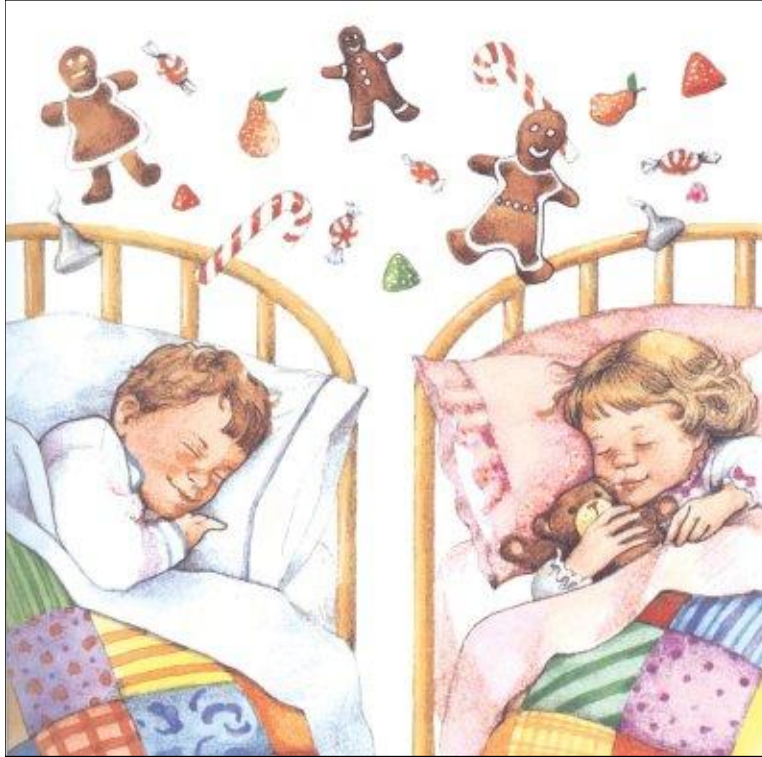
partner and I, attired in our nocturnal head coverings, were about to take slumberous advantage of the hibernal darkness when upon the avenaceous exterior portion of the grounds there ascended

such a cacophony of dissonance that I felt compelled to arise with alacrity from my place of repose for the purpose of ascertaining the precise source thereof.

Hastening to the casement, I forthwith opened the barriers sealing this fenestration, noting thereupon that the lunar brilliance without, reflected as it was on the surface of a recent crystalline precipitation, might be said to rival that of the solar meridian itself – thus permitting my incredulous optical

sensory organs to behold a miniature airborne runnered conveyance drawn by eight diminutive specimens of the genus Rangifer, piloted by a minuscule, aged chauffeur so ebullient and nimble

that it became instantly apparent to me that he was indeed our anticipated caller. With his ungulate motive power travelling at what may possibly have been more vertiginous velocity than patriotic alar predators, he vociferated loudly, expelled breath musically through contracted labia, and addressed



each of the octet by his or her respective cognomen – “Now Dasher, now Dancer...” et al. – guiding them to the uppermost exterior level of

November NKARC Net Report

By Robert Kluck, N4IJS

DATE	NCS	CHECKINS	TIME (MINS)	TRAFFIC
November 2	AJ4DK (Don)	10	24	0
November 9	KB4VKS (Mike)	11	32	0
November 16	N4IJS (Robert)	11	22	0
November 23	KG4SBG (Dennis)	11	30	0
November 30	N4IJS (Robert)	12	30	
TOTALS:		55	138	0

our abode, through which structure I could readily distinguish the concatenations of each of the 32 cloven pedal extremities.

As I retracted my cranium from its erstwhile location, and was performing a 180-degree pivot, our distinguished visitant achieved – with utmost celerity and via a downward leap – entry by way of the smoke passage. He was clad entirely in animal pelts soiled by the ebony residue from oxidations of carboniferous fuels which had accumulated on the walls thereof. His resemblance to a street vendor I attributed largely to the plethora of assorted playthings which he bore dorsally in a commodious cloth receptacle.

His orbs were scintillate with reflected luminosity, while his sub maxillary dermal indentations gave every evidence of engaging amiability. The capillaries of his malar regions and nasal appurtenance were engorged with blood which suffused the subcutaneous layers, the former approximating the coloration of Albion’s floral emblem, the latter that of the *Prunus avium*, or sweet cherry. His amusing sub- and supralabials resembled nothing so much as a common loop knot, and their ambient hirsute facial adornment appeared like small, tabular and columnar crystals of frozen water.

Clenched firmly between his incisors was a smoking piece whose grey fumes, forming a tenuous ellipse about his occiput, were suggestive of a decorative seasonal circlet of holly. His visage was wider than it was high, and when he waxed audibly mirthful, his corpulent abdominal region undulated in the manner of impectinated fruit syrup in a hemispherical container. He was, in short, neither more nor less than an obese, jocund, multigenarian gnome, the optical perception of whom rendered me visibly frolicsome despite every effort to refrain from so being. By rapidly lowering and then

elevating one eyelid and rotating his head slightly to one side, he indicated that trepidation on my part was groundless.

Without utterance and with dispatch, he commenced filling the aforementioned appended hoisery with various of the aforementioned articles of merchandise extracted from his aforementioned previously dorsally transported cloth receptacle. Upon completion of this task, he executed an abrupt about-face, placed a single manual digit in lateral juxtaposition to his olfactory organ, inclined his cranium forward in a gesture of leaving-taking, and forthwith effected his egress by renegotiating (in reverse) the smoke passage.

He then propelled himself in a short vector onto his conveyance, directed a musical expulsion of air through his contracted oral sphincter to the antlered quadrupeds of burden, and proceeded to soar aloft in a movement hitherto observable chiefly among the seed-bearing portions of a common weed. But I overheard his parting exclamation, audible immediately prior to his vehiculation beyond the limits of visibility: “Ecstatic Yuletide to the planetary constituency, and to that selfsame assemblage, my sincerest wishes for a salubriously beneficial and gratifyingly pleasurable period between sunset and dawn.”

From: <http://w4kwh.org/2009/12/22/a-technical-twas-the-night-before-christmas/>



November Meeting Minutes

MINUTES OF THE NOVEMBER 8, 2010 MEETING
OF THE NORTHERN KENTUCKY AMATEUR RA-
DIO CLUB

Minutes from last Month as in the Feedline:

Motion by: Tony, AI4IP
Second by: Robert, AK3Q
All in favor: All
All opposed: None.

Old Business

Moment of silence for Fred, KE4SEN

Membership Raising update

- Ask people to join.
- Suggestion to look into the FCC / QRZ databases for lists.
- ARRL – Can we use them?
- Special Service Club
- Robert, AK3Q, to forward to Robert, N4IJS, letter from last year.

Fund Raising

- Tony, AI4IP, is looking at options.
- By hand count, it looks like there would be sufficient people to help with an event, such as Taste of Blue Ash or a Bengals game, to pull off that type of fundraiser.
- Rob, KI4YWJ, has looked into the “easy way” for us to become a non-profit. That did not work out, so we are pursuing other avenues.

New business

VE update

There were no candidates this evening.

Net Contest Update

There is a close call for the top three spots!
The winners will be announced at the
Christmas Dinner.

Nominating committee update

Elections were held. The results are:

- President: Robert, N4IJS
- Vice President: Dann,
KI4AVO
- Director at Large: Dave,
K8WDA

Thank you, Don – AJ4DK, for all of your
hard work for the Club!

Misc.

Duplexer borrowed by the other Club will
be returned shortly.

It was decided these would be stored at the
255 location. Tony, AI4IP, will coordinate
this effort to store the items at the site.

Christmas Dinner

To be held 12/13 at 6:30 PM at the Golden
Corral in Florence (in front of Lowe’s).

Awards and door prizes will be given out
during this time, so please plan on attend-
ing!

Adjournment

Motion by: Dave, KI4QH
Second by: Tony, AI4IP
All in favor: All
All opposed: None
Time: 19:41

Respectfully submitted by Robert Kluck, N4IJS

Mark's Mutterings

Murphy Visits Sweepstakes!

[ARRL Sweepstakes](#) is probably my favorite operating event, after Field Day. The CW edition falls on the first weekend in November, and the phone edition follows two weeks later. The exchange is more complicated than most contests, so I usually skip the CW version in favor of phone.

As with most contests, the goal is to contact as many other stations as possible. Each ARRL/RAC section (there are [80](#) in all) acts as a multiplier. One of the goals of most participants is to earn a complete “sweep” of all sections.

Several years ago, I participated in the QRP category and completed 182 QSOs in 69 sections, earning a certificate for the top score in my section. The fact that mine was the *only* entry in the category diminished my thrill only slightly!

This year I decided to make things easier for myself by running 100 watts. I expected that 15 Meters would be open for much of the contest, which would make it possible for me to hold a frequency and call CQ — much more efficient than my usual search-and-pounce. (The lower bands usually are just too congested, and I'm not a masochist.)

At around 4:55 on Saturday afternoon, I turned on my K3, switched to 15 Meters, and began looking for a clear frequency to call from. To my surprise, I heard a station calling “CQ Sweepstakes”.

Hmm, somebody jumped the gun, I thought. But then I heard another, and another, and reality set in. I checked the contest rules, and sure enough, the contest had started at 4:00. I had missed the first hour of the contest!

Oh well, there was no use crying over spilled milk. I found a clear frequency, adjusted my mic level and compression, and cranked my Tx power up to 100 watts and began calling. Right away, I could tell that something didn't sound right. My audio (as heard via the K3 Tx audio monitor through my headset) sounded very distorted. I had never experienced this before, so I was puzzled as

to why this was happening now. My transmitted RF was somehow getting back into the rig, affecting my audio. I made sure all the screws in the K3's enclosure were tight. I tried other bands and found that only 15 Meters was experiencing the problem. I inserted my W2DU choke balun between my rig and feedline, in case RF was getting into the shack via the outer conductor of the coax. Didn't help. I tried switching from my mini-beam to my sloper. Didn't help. Finally, I swapped out my headset mic for a hand mic, and that resolved the problem. I can only surmise that RF was getting through the shielding in the cord of my cheapo headset. The hand mic has a much thicker cord and probably better shielding. The only problem was that now I had to hold the mic while transmitting, leaving only one hand free for logging on the laptop. Calling CQ just wouldn't work, so I resigned myself to using search and pounce.

15 and 20 meters were wide open to the west coast, and it didn't take me too long to fill in most of the sections in the 6 and 7 call areas. When 20 shut down I moved to 40, but found it too much of a zoo, so I moved down to 80 and started working sections east of the Mississippi. I called it a night at Midnight and set my alarm for 5:00 a.m.

I had chosen to operate in the unassisted category, which meant that I could not take advantage of spotting networks. Surprisingly, I had no trouble working many of the sections that are traditionally difficult, including PR, VI, WY, ID, NL and NT, while I had trouble finding sections that should have been quite easy! I didn't find another KY station until Sunday afternoon, and by the time I tracked down MS, I was too late to beat a large pile-up. In the end, I missed the sweep by five sections: QC, NLI, MS, RI and SNJ. I completed 255 QSOs — an improvement over my previous efforts, but not as good as I had hoped. I'll do better next year!

73,
Mark Volstad, AI4BJ

Weaver's Words

Jingle, Jingle

Jim Weaver, K8JE
Great Lakes Division Director, ARRL
E-mail: k8je@arrl.org; Tel.: 513-459-0142

Happy Hanukkah and Merry Christmas

I wish each of you and your families a very happy Hanukkah and merry Christmas. I hope you have a very joyful and holy season.

They went Phishing

If you received or receive an E-mail identified "Mailbox Manager Report! Attention: American Radio Relay League Email User!" Ignore it. It is not from ARRL HQ and has nothing to do with any change-over in ARRL websites. It represents a Phish for information you do not want to disclose to the sender (whoever this is). Sent by a Worm program that infected an innocent, unprotected host computer?



function that local clubs are highly suited to perform — and they gain \$15 for each of these new members they recruit. Similarly, taking ARRL renewals from club members should be a very simple, easy-to-perform service that will also benefit the club.

To learn about the benefits of being an ARRL Affiliated Club, go to <http://www.arrl.org/affiliated-club-benefits>. Information on the club commission program is found by clicking on the Club Commission Program, To obtain the forms to process Club Commissions and memberships paid through clubs go to <http://www.arrl.org/files/file/Clubs/rebate.pdf>.

Nominations Open for Dayton Hamvention Awards

Nominations are open for 2011 Dayton Hamvention(TM) Awards. In the words of Hamvention Awards Committee Chairman Frank Beafore, WS8B, the awards are the "Academy Awards of Hamvention."

New in 2010, the Hamvention Awards Committee introduced a new award — The Club of the Year — with great success: Beafore stated "Because of the number of great clubs nominated and their big contributions to the growth of ham radio, we elected to make this award a permanent addition to the Hamvention Awards event." The four Hamvention awards therefore now are: The Amateur of the Year Award — given to the special person who has made a long term commitment to the advancement of Amateur Radio, the Technical Excellence Award — given to the person who has made an outstanding technical advancement in the field of Amateur Radio, the Special Achievement Award — given to honor someone who has made an outstanding contribution to the advancement of Amateur Radio and the Club of the Year Award — given to recognize the accomplishments, activities and public service of an Amateur Radio club.

Recipients of the awards are selected by the Awards

How to Raise Money for Your Club

Michigan ACC Scott Bicknell, W1BIC reminds me to mention that ARRL Affiliated Clubs can receive money from most ARRL members without costing them a penny and with only minimal effort. This can be done simply by paying ARRL dues through an ARRL Affiliated Club. Affiliated clubs can retain \$15 of each new ARRL membership made through it and \$2 of each ARRL membership renewed through the club. This is just one of the benefits to clubs that affiliate with ARRL.

The membership commission program should be an excellent way for a club to add to its treasury while strengthening Amateur Radio at the same time. Each new ARRL member strengthens the ability of the League to promote and to defend Amateur Radio. Encouraging amateurs to become ARRL members is a

Committee, based partially upon the information received, not the number of nominations submitted.

Documentation of achievements of nominees is beneficial. Magazine articles, newsletters, newspaper clippings, videos are examples of documentary evidence that will support a candidate's accomplishments. Materials submitted with nominations become the property of Hamvention and cannot be returned. Nominations may be sent via e-mail (please scan all supporting documents and send them as attachments) or US Mail to Hamvention Awards, PO Box 964, Dayton, OH 45401-0964. Nomination forms for both the individual awards and the club award are available in PDF format at

<http://www.hamvention.org/awards.php#nominations>. If you send a nomination by E-mail, the Awards Committee asks you to put your name in the subject line of the message

New Amateurs Listed

Certain Affiliated Club officers may access listing of newly-licensed amateurs in their areas from the ARRL website. This is done by going to <http://www.arrl.org/affiliated-club-benefits> and clicking on the New Amateur Reports for Clubs link near the bottom of the list of Affiliated Club benefits. Lists may be seen, downloaded and printed as comma-separated or tab-separated formats. The HTML format is not yet available.

A&F Meeting Notes

The ARRL Administration and Finance Committee (A&F) met at League HQ in Newington, CT on Saturday, November 20 for an intense discussion of many topics. These ranged from government-mandated business issues to changes in communications between Staff and the Board and the status of the new website project. Results of this and other committee meetings will be reported to the Board of Directors at the Janu-

ary Board meeting for action.

Great Lakes Division Election this Coming Fall

The tri-annual election for Director and Vice Director of the Great Lakes Division will take place this coming fall. Even so, now is a good time for GLD members to begin to look around to see if they know of amateurs who they believe should be nominated for one of these positions. Eligibility requirements for Director and Vice Director candidates are stated in the ARRL Articles of Association as follows:



"Article 11:

"No person shall be eligible for the office of Director, Vice Director, President, Vice President, or Treasurer who has not been a Full member of the League for at least four continuous years immediately preceding nomination and throughout the subsequent term of office, nor shall any person be eligible who has not held continuously during that period a valid authorization as a radio amateur in accordance with the applicable laws and regulations of the United States. No person shall simultaneously hold the office of President or Vice President and Director. No person shall be eligible for, or hold, the office of Director, Vice Director, President or Vice President whose business connections are of such nature that his or her influence in the affairs of the League could be used for his or her private benefit or would materially conflict with the activities or affairs of the League. The primary test of eligibility under this portion of the Article shall be full compliance with the Articles, By-Laws and Rules and Regulations of the League relating to ethics, elections and conflicts of interest."

Directors and Vice Directors are elected to terms of three years each. Director-Vice Director elections occur in five Divisions on a rotating basis each year.

Watch for a call for nominations in the July and August, 2011 issues QST. Vote counting will occur next November and winning candidates will take their positions at noon on January 1, 2012.

Further Results of the Recent Division Survey

The following are a few more of the results of the recent Great Lakes Division Survey.

To the question concerning a possible new 470 kHz band, 37% stated no interest of operating on this band, 29% would get on after commercial equipment becomes available, 15% would be among the first to get on and 17% said they do not have sufficient space for an antenna for the band.

A good majority (61%) of respondents knew that the ITU is An arm of the United Nations that holds periodic meetings of world governments to develop and oversee international telecommunications treaties.

The counterpart question to the one about ITU was correctly answered by 59% who said IARU is An International coordinating organization of National Amateur Radio Societies.

Seventy five percent said they know who their ARRL Director and Section Manager are, and are familiar with the tasks these elected officials perform.

Of those who took the survey, 70% voted in the last elections. Incidentally, the Board is reviewing means through which voting can become simplified and one hopes will gain additional membership participation.

To a question similar to the one on 470 kHz, 43% expressed no interest in operating on 60 M, 36% do not now operate on 60 but will likely get on the band provided planned FCC rules changes for it are adopted and 12% currently operate on the band and expect to use it more. Four percent use the band now and would probably not increase their usage if the FCC proposals are activated.

There were a number of interesting and useful comments made to the questions that were asked, as well as on different topics. I greatly appreciate the time and thought that were put into taking the survey. There are more to come. In the meantime, feel free to E-mail or telephone me if you would like to discuss your likes,

dislikes and suggestions.

To see the results of the survey in greater detail, go to the Great Lakes Division website at <http://arrl-greatlakes.org/>. The answers and comments are posted here.

Engineer Volunteers offer Free Advice to Radio Amateurs

Several years ago, the ARRL established an appointment for engineers who are willing to provide initial, free advice to amateurs with engineering issues related to Amateur Radio. These Volunteer Consulting Engineers (VCEs) are available to help hams address structural requirements set forth in local zoning authorities.

An up-to-date list of VCEs in the Great Lakes Division can be found on the GLD website — www.arrl-greatlakes.org. Click on the Staff icon at the left of the home page and then on Volunteer Consulting Engineers to reach the lists.

Engineers who would like to consider becoming a VCE are invited to click on the To Become A Volunteer Consulting Engineer link at the bottom of the right-hand column of the VCE list. Here, one can review details of this position and apply for an appointment if they choose.

This Month's Final

It is no secret that the new ARRL website has had a rough time at birth. The status at this time, to continue the analogy, is that its head and shoulders have been delivered and the hips can be seen. The birth is nearly complete.

Completing the birthing process will not mean the end of work on the new site. Actually, it will continue to evolve over time. What the completion of the process will mean is that work on the site will be turned over completely to the ARRL IT group and ARRL staff. If one uses the site reasonably often, it becomes obvious that there are a number of tweaks and modifications needed to make its functioning more intuitive and ham

friendly. For one thing, there are few instances when a website user should be directed to click on a link to accomplish an action only to be taken to a different page where the instruction, again, is to click on a second link to accomplish the same action.

What is good to see is that in the short time since management of the project was shifted to our CEO, and the ARRL IT group became involved more deeply in the project, much progress has been made.

Incidentally, if you run into a problem or an it-doesn't-make-sense-to-me situation with the new site tell HQ about it. Go to the very bottom left of the home page and click on the Contact ARRL link. In the space for a message, please describe the situation briefly, but in sufficient detail to allow another person to know what you experienced and where you experienced it. By this I mean tell what the problem is, where it is (the URLs involved), what you were trying to do and any message errors you received. Address the message to Website Support.

Tentative Travel, Hamfest and Activity Schedule

Hamfests in the following list have received ARRL sanctioning as of press time. Hamfests and other events for which a Great Lakes Division representative is scheduled to attend are identified with the representative's name. The schedule can be expected to be fine-tuned from time to time.

Patronize ARRL-sanctioned hamfests. Hamfests, conventions, symposia and similar events sponsored by ARRL-affiliated clubs may be eligible to be sanctioned by the League. For information on sponsoring and sanctioning a hamfest or convention, go to www.arrl.org/hamfest-sponsor-support. To have your hamfest sanctioned, go to <http://www.arrl.org/hamfest-convention-application> to apply on line. Hamfests are already being sanctioned for 2012! Please be sure to read the requirements for having an event sanctioned before submitting a request.

Hamfest Chairmen, please remember to order your free handouts that are available from ARRL. These handouts are to be displayed on the ARRL table you pro-

vide. These replace the box of assorted goodies HQ previously sent automatically. The reason for the change is to allow you to select only the materials you believe will be of value and interest to your attendees.

2010

5 Dec: LCARC Swap/Hamfest, Harrison Twp., MI

2011 Happy New Year!

16 Jan: 45th Hazel Park Hamfest, Hazel Park, MI - Jim*

16 Jan: SCARF Hamfest, Nelsonville, OH

20 Jan: A&F Meeting, Newington, CT - Jim

21-22 Jan: ARRL Board Meeting, CT - Gary, Jim

30 Jan: Tusco ARC Hamfest, Strasburg, OH

6 Feb: NOARS Winter Hamfest, Lorain, OH

12 Feb: Cherryland ARC Swap-n-Shop, Traverse City, MI

13 Feb: IARC Mid-Winter Hamfest, Mansfield, OH - Jim*

20 Mar: TMRA Hamfest/Computer Fair, Perrysburg, OH

20 Feb: Livonia ARC Swap-N-Shop, Livonia, MI - Jim*

19 Mar: Crossroads Hamfest, Marshall, MI - Jim*

2 Apr: ARGYL Hamfest, Lowell, MI - Jim

9 Apr: 55th Cuyahoga Falls ARC Hamfest, Cuyahoga Falls, OH

16 Apr: Milford Swap and Shop, Milford, MI

14 Jul: Committee Meeting, Newington, CT

15-16 Jul: ARRL Board Meeting, CT - Gary, Jim

17 Jul: Van Wert Hamfest, VanWert, OH

31 Jul: Portage Hamfair 11, Randolph, OH

6 Aug: Voice of Aladdin Hamfest, Columbus, OH - Jim

21 Aug: Warren ARC Hamfest, Cortland, OH

28 Aug Cambridge ARA Hamfest, Cambridge, OH

17 Sep Richmond Hamfest, Richmond, KY

*Driving conditions permitting.

Return to:
Northern Ky. Amateur Radio Club
P.O. Box 1062
Covington, Ky. 41012

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CLASS**

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**NKARC Feedline December 2010
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