

MAY | 2009 | ISSUE 5

**NEXT MEETING: MAY 19 @ THE CLUB-
HOUSE. MEETING STARTS AT 8:00PM.
FOOD & SOCIALIZING FUN STARTS
IMMEDIATELY THEREAFTER.
CU THERE!**



[<www.w3kwh.com>](http://www.w3kwh.com)

KiloWatt Harmonics

THE OFFICIAL (AND ONLY) NEWSLETTER OF THE
STEEL CITY AMATEUR RADIO CLUB

Gettin' ready for Dayton Hamvention?

Well, spring has sprung, the leaves are comin' back out, the grass is growin', and it's slowly getting warmer outside. If the natural order of things continue like it should, that means hamfest season is upon us!! I can't think of a better way to kick off hamfest season than with the biggest and best of 'em all: Dayton 2009!

Hamfests are a great way of rekindling your interest in radio when you find it waning. At Dayton, you're always guaranteed a great time; new toys and offerings by the manufacturers are more often than not being seen here for the first time ever, goodies in the flea market abound, and in general it's just a great escape from reality and the troubles of the world for three days.

Remember, if you're going this year, lemme know your thoughts about it for the next newsletter. I'll have my camera in hand to record the event for posterity, too. Send me your thoughts and pictures and opinions of the hamfest to: <KQ3DX@hotmail.com>, and I'll stick 'em in the next newsletter.

You've probably noticed that this month's issue is a little "thin". To keep that from happening again, I hope you'll help keep me informed of what's going on locally in the world of Amateur Radio. Remember, just because you know doesn't mean I know. Send your articles/pictures/etc. to <KQ3DX@hotmail.com>. That's it for now!! CU at Dayton, I hope!! 73 de NB3C!



Club & Officer Info/Table Of Contents

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WA3TTS
(412) 364-2740**

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(412) 276-0825**

**Recording Secretary:
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(412) 922-6340**

**Corresponding
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(412) 243-3061**

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**KiloWatt Harmonics,
May 2009**

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Amateur Radio Club**

Edited by Greg Babin, NB3C

**'KiloWatt Harmonics' is
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members of the Steel City
Amateur Radio Club.**

**All contributions are
welcome at:**

<KQ3DX@hotmail.com>

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**SCARC is a not-for-profit
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under IRS Rules & Regula-
tions section 501 (C) (3)**

**The Steel City Amateur Radio
Club is an ARRL-Affiliated
organization.**

**The Steel City Amateur Radio Club (412) 787-0777
2M Repeater: 147.030/147.630MHz (PL 123.0)
70cm Repeater: 444.450/449.450MHz (PL 103.5)
WA3TTS Beacon: 144.300MHz (CW)
WA3TTS Beacon: 50.070MHz (CW) 1/2 w ERP
ATV Repeater: 426.250MHz (Currently off-line.
Contact AA3EE for more info.)
1296MHz Beacon: 1296.269MHz (CW) 1W**

**AND I COULDN'T HAVE PRODUCED
THIS NEWSLETTER WITHOUT THE
HELP OF THESE FINE PEOPLE:
THANKS ALL, FOR YOUR EFFORTS.
73 DE NB3C ET AL!**

In The World Of DX.....

From various issues of The ARRL
DX Bulletin. Thanks, ARRL for
permission to reprint here.

- ⇒ **ITALY, I.** Adriano, IT9CCB will be QRV as IO9ROTA from April 19 to May 19 in celebration of the 141st birthday of Paul Harris, the founder of the Rotary International Club. Activity will be on 40, 20 and 15 meters. QSL via operator's instructions.
- ⇒ **BANGLADESH, S2.** Ramon, DU1UGZ is QRV as S21UGZ from Dhaka City until June 20. He will be active on 80 to 10 meters using SSB and RTTY in his spare time. QSL to home call.
- ⇒ **SEYCHELLES, S7.** Davide, IZ3EFL is QRV as S79DF for about one year. He is currently active on 20 meters but hopes to be QRV on other bands as well. He may also try to activate Aldabra Island, IOTA AF-025. QSL via IV3TDM.
- ⇒ **KUWAIT, 9K.** Yaser, 9K2YM is QRV from Failaka Island, IOTA AS-118, and has been active on 40, 30, 20 and 15 meters using SSB and RTTY. His length of stay is unknown. QSL via EA5KB.
- ⇒ **WEST MALAYSIA, 9M2.** Richard, PA0RRS has moved here permanently and is QRV as 9M2MRS from Penang Island, IOTA AS-015. Activity is generally using CW with SSB on request. QSL via operator's instructions.
- ⇒ **ETHIOPIA, ET.** Peter is QRV as ET3BN is QRV from Addis Ababa and is here for a few years. Activity is generally on 80 to 10 meters using CW and SSB. QSL direct.
- ⇒ **ENGLAND, G.** In celebration of the centenary year of the UK Royal Naval ARS, special event station GB100FAA is QRV until May 15 and then from May 19 to 21. Activity is on 80 to 10 meters using CW and SSB. QSL via bureau.
- ⇒ **BULGARIA, LZ.** In commemoration of the inventors of the Cyrillic Alphabet, St. Kiril and Methodius, members of the Bulgarian Federation of Radio Amateurs are QRV as LZ2009KM during the month of May. QSL via LZ1PJ.
- ⇒ **INDONESIA, YB.** Hotang, YC0IEM is QRV from Borneo Island, IOTA OC-088, until May 15. QSL via IZ8CCW.
- ⇒ **OPERATIONS APPROVED FOR DXCC CREDIT.** The following operations are approved for DXCC credit: Western Sahara, S04R, 2009 operation; North Cook Island, E51QQQ, 2009 operation.
- ⇒ **DENMARK, OZ.** Paolo, I2AE is QRV as OZ/I2AE/p from various Danish islands and from at least 19 Lighthouses on these islands. Activity is on 40 and 20 meters using SSB. QSL to home call.
- ⇒ **AZERBAIJAN, 4J.** Members of the Azerbaijan Radio are QRV with special call 4K1V in commemoration of "Victory-64" until May 19. Activity is on all bands and modes. QSL via UA3FDX.
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- ⇒ **WALES, GW.** Members of the Barry Amateur Radio Society are QRV as GB100BP until May 31 in celebration of 100 years of British Petroleum. QSL via GW0ANA.
- ⇒ **DOMINICAN REPUBLIC, HI.** Ronny, OT4R, will be QRV as HI7/home call during his holidays from Punta Cana, IOTA NA-096, from May 9 to 30. Activity will be on 20, 15 and 10 meters. QSL to home call.
- ⇒ **BANGLADESH, S2. Ramon, DU1UGZ** is now QRV as S21XR until June 20. QSL to home call.
- ⇒ **MICRONESIA, V6.** Operators JA7HMZ and JH7IOS will be QRV as V63DX and V63CW, respectively, from Pohnpei, IOTA OC-010, from May 11 to 16. Activity will be on 40 to 6 meters. QSL to home calls.
- ⇒ **VANUATU, YJ.** Mike, YO8CYN is QRV as YJ0EM until May 25 and is active in his spare time. He is generally active on 20 meters using SSB. QSL to home call.

Business Meeting Minutes: April 2009

President WB3HDI, Bob opened the meeting at 8 PM with a Pledge of Allegiance followed by a Moment of Silence for our Silent Keys. The Roll Call was given by 25 members and 3 guests in attendance. Treasurer's Report was given by Treasurer KA3YNO, Walt and accepted by the membership. Walt stated that 56 members have paid their dues thus far and that the club paid an extra charge for a map of the recent club property survey. Half payment was made for the club road improvement contract and the annual fee for our web hosting was made.

Committee Reports

Clubhouse WA3VXJ, Karl cleaned up the clubhouse and is helping to prepare the after meeting treats that Prez Bob brought. Karl thanked Bob for cutting some brush and weeds and for placing visible rods marking the property boundary. He stated that we need more storage space for lawn cutting equipment. This may be in the form of an addition to the existing shed, or a new structure. Many suggestions were given and local building laws must be considered before the needed storage space can be produced.

Technical WA3TTS, Mike has determined that there is significantly less noise on the 222 MHz band due to the temporary relocation for the Ch. 13 transmitter. He suggested that this is an opportunity for the club to score much better in the June VHF and Aug. UHF contests. Funds were allocated for a needed 2 M repeater antenna replacement and turnbuckles for the ATV tower guy cables.

Contest National Field Day will be the last weekend of June and the 432 Spring Sprint will be tomorrow.

Membership WA3BKD, Art gave the 2ed reading for Gary Craig and the final reading for KB3RUJ, Jim who was voted in by the membership. Welcome Jim!

Public Service KA3JKS, Sue sent check to the ARRL in memory of SK KA3LNG, Kurt and stated that 60 more volunteer ops were needed for the Pittsburgh Marathon.

Ways and Means WA3FWA, Joe will run the 50/50 raffle after the meeting.

Volunteer Exams AI3J, Mark will have a session in June.

Old Business Art reported that a contract was made with the company who will do the roadside fill in work as soon as the township sewer work is completed on our section of McMichael Rd. A club address sign will be placed at the bottom of the road as soon as all other work is completed. N3EQP, John said to notify him if any new books are desired for the library and, he is making a list of distances from reference points to the clubhouse for emergency personal so they can find us if called. No further action has been taken on the D-Star implementation proposal. WB3CRC, Dale would like to thank N3DQ, Della for her work in providing CPR and AED module training to the members.

New Business Dale reported that WB3CRF, Rich is dealing with health problems and is not up to snuff.

Good of the Order Walt has revised the Treasurer's report. WA3RVD, Mel has a trap vertical antenna on display that is for sale. N3UUZ, Chuck has an extra room available for the Dayton Hamvention.

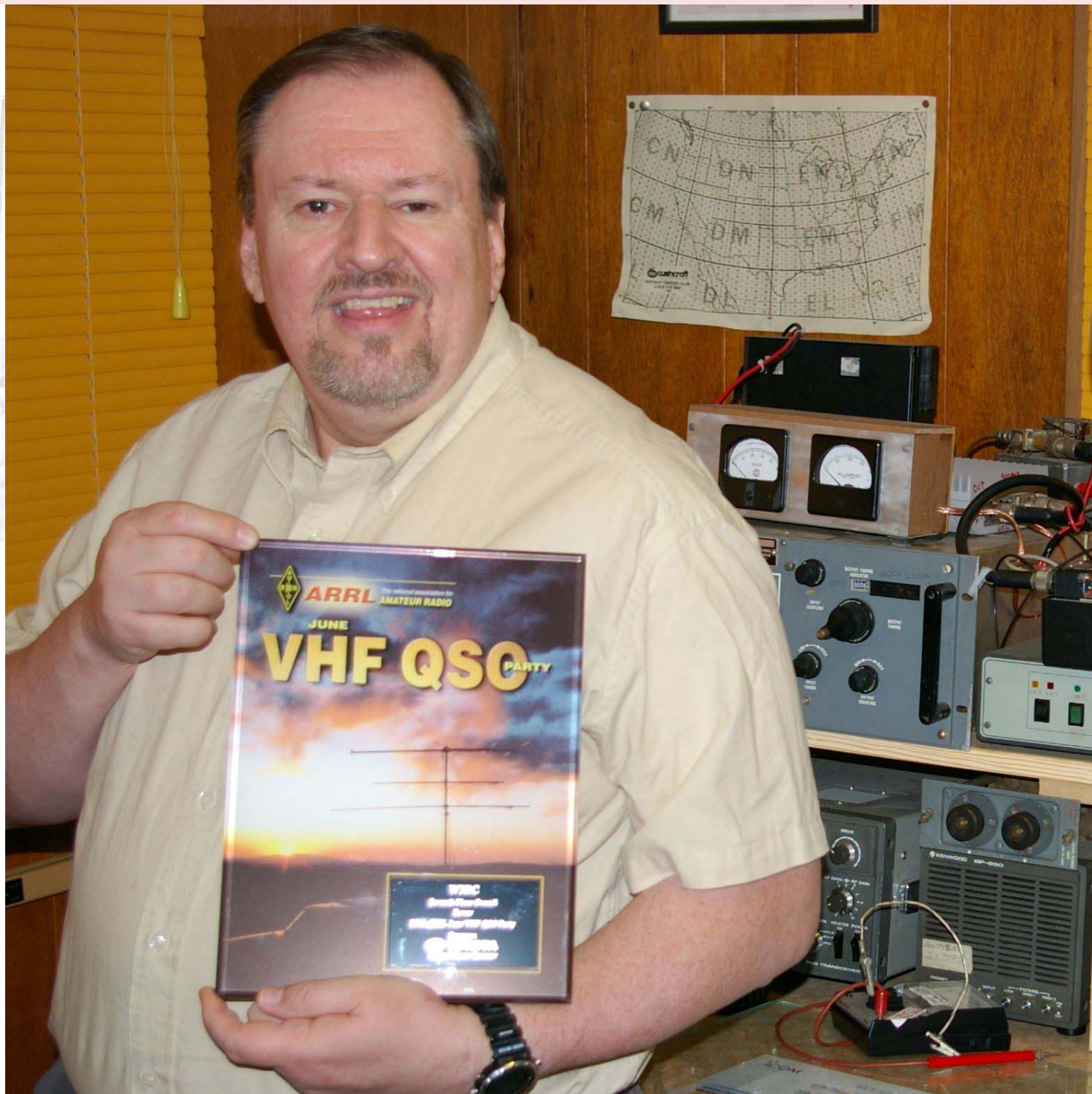
Motion to Adjourn by Art.

50/50 raffle won by W3SVJ, Nate.

Minutes submitted by Recording Secretary WA3FWA, Joe.

**Our next business meeting will be
held on May 19 at 8PM.
CU @ the Clubhouse!!**

W3BC Scores high in ARRL VHF Sweepstakes



Joe Shupienis, W3BC received an award from the ARRL for taking Seventh Place Overall Rover in the June 2008 ARRL VHF Sweepstakes. Joe was pleased and surprised to see the award plaque on his doorstep, and is happy to acknowledge the help of WA3UFN, KB3NZX and WA3VXJ, as well as the few lingering sunspots that created significant Es most of Sunday.

Welcome to our newest members!!



Congratulations to Gary Craig, KB3SVF and Scott Sayne, KB3SVV! Here's wishing them many happy QSOs!



On the national front.....

⇒ ARRL GRASSROOTS LEGISLATIVE ACTION COMMITTEE SOLICITS MEMBER SUPPORT FOR HR 2160

One of the biggest challenges that amateurs face is antenna restrictions-- those implemented by local governments and those originating from deed restrictions and building development covenants. As many hams know, the FCC's PRB-1 limited preemption order <http://www.arrl.org/FandES/field/regulations/PRB-1_Pkg/prb-1.pdf> offers amateurs some relief when facing zoning and building restrictions; however, PRB-1 does not extend to include covenants, conditions and restrictions (known as CC&Rs). These deed and property use restrictions strongly and negatively affect the ability of Amateur Radio Service licensees to perform valuable emergency and disaster communications. Finding a method to extend the PRB-1 protections is a key component of the ARRL Legislative Action Program <<http://www.arrl.org/govrelations/laproq-faq.html>>.

On April 29, Congresswoman Sheila Jackson-Lee (D-TX) introduced House Bill HR 2160 -- the Amateur Radio Emergency Communications Enhancement Act of 2009 <<http://www.arrl.org/news/stories/2009/04/30/10792/?nc=1>>. If enacted into law, HR 2160 would instruct the Secretary of Homeland Security to undertake a study and report its findings to Congress within 180 days. The study would spell out uses and capabilities of Amateur Radio communications in emergencies and disaster relief. The study shall:

- * Include recommendations for enhancements in the voluntary deployment of Amateur Radio licensees in disaster and emergency communications and disaster relief efforts.

- * Include recommendations for improved integration of Amateur Radio operators in

planning and in furtherance of the Department of Homeland Security initiatives.

- * Identify unreasonable or unnecessary impediments to enhanced Amateur Radio communications -- such as the effects of private land use regulations on residential antenna installations -- and make recommendations regarding such impediments.

- * Include an evaluation of Section 207 of the Telecommunications Act of 1996 (Public Law 104-104, 110 Stat 56 [1996]).

- * Recommend whether Section 207 should be modified to prevent unreasonable private land use restrictions that impair the ability of amateurs to conduct, or prepare to conduct, emergency communications by means of effective outdoor antennas and support structures at reasonable heights and dimensions for the purpose in residential areas.

The bill does not automatically extend PRB-1 to include CC&Rs, but it takes a first big step in that direction by determining the extent that things such as CC&Rs impede the Amateur Service in performing public and emergency service communications.

HR 2160 has been assigned to the House Committee on Energy and Commerce. Getting the bill out of committee is the first major hurdle to overcome-- and that is where ARRL members play an essential role. As part of a phased campaign, members of the ARRL's Legislative Action Committee and Division Directors sent letters to some ARRL members earlier this week; these members reside in a congressional district whose Member of Congress serves on that committee. The next phase will include all ARRL members.

This first set of members was encouraged to send letters expressing their support of HR 2160 to their congressional representative via Chwat & Company, the League's Washington legislative consultant. Due to security measures imposed on mail sent to congressional personnel, representatives from Chwat will hand deliver the letters to the respective Member of Congress.

"Getting HR 2160 passed is going to be a challenging process -- and every ARRL member needs to be involved," said ARRL Regulatory Information Manager Dan Henderson, N1ND. "The actions this week by the Grassroots Legislative Action volunteers are just the first step in our journey into getting the bill signed into law."

For more info on HR 2160 or the Legislation Action Program, please contact Henderson via e-mail <reginfo@arrl.org>.

The Beginner's Help Desk

Here are some measurements made with my HP-141T for different ferrite beads on a short length of coax in a 50 ohm circuit. The photo shows a set of ten Type 31 beads on a short piece of RG-58 cable. The HP-141T is indicating 34 db of attenuation near 50.1 MHz. From left to right behind the Type 31 bead string are:

a Type 77 solid bead,
a Type 43 solid bead,
a Type 44 split bead,
and a Type 43 split bead.

Note this is only an attenuation test in a 50 ohm circuit. It does not address issues such as power handling capability or the complex impedance situation of a set of beads installed on a given transmission line in a given location. Your results may (likely) vary, but some general trends are evident in the table below.

FERRITE BEAD ATTENUATION TEST IN 50 OHM CIRCUIT

	FT-31 RG58	FT-43 RG-58	FT-43 RG-213	FT-77 RG-213	FT-44 RG-213	FT43 SPLIT RG-213
Nr of Beads	10	10	10	13	7	9
Perm (u)	1500	850	850	2000	500	850
Frequency	Attenuation in Power dB					
1.8 MHz	18	10	10	22	4	2
3.8	20	14	14	18	9	5
5.3	21	16	16	16	11	7
7.1	22	18	17	15	13	8
10.1	24	19	19	14	14	10
14.1	24	20	20	14	16	12
18.1	26	21	22	14	17	14
21.2	26	22	23	14	18	14
25	26	23	24	14	18	16
29	28	24	24	14	19	16
50.1	34	28	30	14	24	20

Number of Beads were chosen for equal length on coaxial line.

Bead Type	O.D. Inch	I.D Inch	LENGTH Inch
31	.567	.26	1.12
43	.735	.41	1.14
43 Split	.870	.40	1.27
44	1.0(sq)	.75	1.54
77	1.02	.504	.842

(CONTINUED ON NEXT PAGE)

The Beginner's Help Desk (from page 8)

Bead Type

- 31 cwsbytemark.com Part Nr SB-5621-31
- 43 Nebraska Surplus Sales (Beads & Sleeves) ICH-2643626402
- 43 Split Fair Rite model 0443167251
- 44 Fair Rite model 2644173551
- 77 cwsbytemark.com Part Nr. SB-1024-77

Measured with HP-141T and MFJ-259B signal source.

Double the number of beads to increase choking attenuation by 3db.

Halve the number of beads to reduce choking attenuation by 3 db.

73, de WA3TTS.



May 2009

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1 NCCC Sprint Ladder AGCW QRP/QRP Party	2 MARAC CW/SSB Q Party Indiana QSO Party 10-10 Int. Spring Contest, CW/Digi
3 WASH Sun. Net New England QSO Indiana QSO Party 10-10 Int. Spring Contest, CW/Digi MARAC CW/SSB Q Party	4 Breezeshooters Net RSGB 80m Club Championship SSB	5 WACOM 2M Net WACOM 10M Net Skyview Meeting ARS Spartan Sprint	6 SCARC Social Nite Alleg Co. ARES Net	7 SkyView 2M Net WACOM Meeting	8 NCCC Sprint Ladder	9 FISTS Spring Sprint VOLTA WW RTTY Test CQ-M Int'l DX Test (also 5/10) VK/Trans-Tasman 80m Contest, Phone
10 Mother's Day WASH Sun. Net SKCC Sprint 50 MHz Spring Sprint VOLTA WW RTTY Test	11 Breezeshooters Net	12 WACOM 2M Net WACOM 10M Net	13 SCARC Social Nite Alleg Co. ARES Net NHARC Meeting RSGB 80m Club Championship Data	14 SkyView 2M Net WASH Meeting	15 DAYTON HAMVENTION NCCC Sprint	16 DAYTON HAMVENTION Feld Hell Sprint
17 DAYTON HAMVENTION WASH Sun. Net His Maj. King of Spain Contest CW EU PSK DX Contest	18 Breezeshooters Net Run for the Bacon QRP Contest	19 SCARC Business Meeting WACOM 2M Net WACOM 10M Net	20 Alleg Co. ARES Net	21 SkyView 2M Net QRP Minimal Art Session RSGB 80m Club Championship CW NAQCC Straight Key/Bug Sprint	22 NCCC Sprint	23 Baltic Contest
24 WASH Sun. Net Baltic Contest	25 Memorial Day Breezeshooters Net MI QRP Memorial Day CW Sprint	26 WACOM 2M Net WACOM 10M Net MI QRP Memorial Day CW Sprint	27 SCARC Social Nite Alleg Co. ARES Net SKCC Sprint	28 SkyView 2M Net	29	30 CQ WW WPX Contest CW Kids Roundup
31 CQ WW WPX Contest CW WASH Sun. Net Kids Roundup ARCI Hootowl Sprint						

April 2009						
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June 2009						
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June 2009

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1 <i>Breezeshooters Net</i>	2 <i>WACOM 2M Net WACOM 10M Net ARS Spartan Sprint Skyview Meeting</i>	3 <i>SCARC Social Nite Alleg Co. ARES Net</i>	4 <i>10 meter NRAU Activity Test SkyView 2M Net WACOM Meeting</i>	5 <i>Digital Pentathlon</i>	6 <i>DigiFest Contest Wake-Up! QRP Sprint SEANET Contest IARU Region 1 Fieldday Alabama QSO Party</i>
7 <i>Breezeshooters Hamfest SEANET Contest IARU Region 1 Fieldday Alabama QSO Party DigiFest Contest</i>	8 <i>Breezeshooters Net</i>	9 <i>WACOM 2M Net WACOM 10M Net</i>	10 <i>SCARC Social Nite NHARC Meeting NAQCC Straight Key/Bug Sprint Alleg Co. ARES Net</i>	11 <i>SkyView 2M Net WASH Meeting NAC 50 MHz (Aktivitestest)</i>	12	13 <i>ANARTS WW RTTY Test Asia-Pacific Sprint GACW WWSA CW DX Test DDFM 50 MHz Contest</i>
14 <i>Flag Day WASH Sun. Net ANARTS WW RTTY Test GACW WWSA CW DX Test DDFM 50 MHz Contest</i>	15 <i>Breezeshooters Net</i>	16 <i>SCARC Business Meeting WACOM 2M Net WACOM 10M Net</i>	17 <i>Alleg Co. ARES Net</i>	18 <i>SkyView 2M Net</i>	19	20 <i>All Asian DX Test CW SMIRK Contest Feld-Hell Club Sprint WVA QSO Party Kid's Day</i>
21 <i>Father's Day Summer Begins WASH Sun. Net All Asian DX Test CW SMIRK Contest WVA QSO Party</i>	22 <i>Breezeshooters Net</i>	23 <i>WACOM 2M Net WACOM 10M Net</i>	24 <i>SCARC Social Nite SKCC Straight Key Sprint Alleg Co. ARES Net</i>	25 <i>SkyView 2M Net</i>	26	27 <i>ARRL Field Day WASH Breakfast MARCONI Memorial Test HF CW Ukrainian DX DIGI Test</i>
28 <i>ARRL Field Day WASH Sun. Net MARCONI Memorial Test HF CW Ukrainian DX DIGI Test</i>	29 <i>Breezeshooters Net</i>	30 <i>WACOM 2M Net WACOM 10M Net</i>				

May 2009						
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June 2009						
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July 2009						
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BREEZESHOOTERS

THIS IS AN ARRL SANCTIONED HAMFEST

HAMFEST 2009 and COMPUTER SHOW

Website: www.breezeshooters.net

Email: hamfest2009@breezeshooters.net

General Hamfest Chairman: Bob Benna N3LWP (412) 366-0488

BUTLER FARM SHOW GROUNDS
Sunday, June 7th 2009 - 8:00am to 3:00pm

.....

TABLE SELECTION ON A FIRST COME FIRST SERVE BASIS, SO APPLY TODAY!

Indoor Tables are **\$20.00 per table** and may be reserved by calling Bob Benna N3LWP (412) 366-0488 or mail to: 1010 Willow Drive, Pittsburgh, PA 15237 - Table reservation **Cut-off Date is May 20th**

Icom, Yaesu, & MFJ prizes from KJI Electronics

\$5.00 Per Person ADMISSION DONATION Children under 12 years of age admitted FREE	TAIL GATE / FLEA MARKET SPACE Available at \$5.00 Per Space	Vendor & Tailgate Setup Saturday, June 6th 2009 Starting 5:00pm
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MAIN PRIZE DRAWING AT 3:00pm ~ WINNERS NEED NOT BE PRESENT TO CLAIM MAIN PRIZES
All prizes subject to availability or substitution

1st	IC-7000	ICOM Xcvr 160M-70cm	6th	IC-91A	ICOM 5w 2m-70cm HT
2nd	IC-706MKII	ICOM Xcvr 160M-70cm	7th	IC-V8000	ICOM V8000 75w 2m
3rd	FT-857D	Yaesu Xcvr 160M-70cm	8th	RS-35A	ASTRON P.S. 25A
4th	MFJ-2990	160M-6M Vertical Antenna	9th	SL-1	Tigertronics Rig Interface
5th	MFJ-269	MFJ Antenna Analyzer	10th	MFJ-4603	Window Pass Thru

CASH PRIZES!
Drawings for \$100 at
12:30pm, 1:30pm, 2:30pm.
Cash Prizes will be draw from
your admission ticket. Must be
present to win cash prizes.

10 HALF HOUR
PRIZES!
Consisting of 10 Alinco
V-17A Handhelds.
Drawings start at
10:00am

LAPTOP COMPUTER
DRAWING
Intel Core II Duo, 2 GB Ram,
160GB HDD, DVD+/-RW,17"
Display, Wireless Lan, Windows
Vista Basic

MAIN PRIZES - ADVANCE TICKET SALES

HAM PRIZES		\$2 EACH		2 FOR \$5		7 FOR \$10		15 FOR \$20
COMPUTER		\$2 EACH		2 FOR \$5		7 FOR \$10		15 FOR \$20

SEND SELF-ADRESSED
STAMPED ENVELOPE TO:

Advance Ticket Sales
Breezeshooters Hamfest
PO Box 100158
Pittsburgh, PA 15233-0158

Enclosed check in the amount of:

Make check payable to: Breezeshooters, Inc.

Send Tickets indicated above. Prize Claim Tickets returned in your SASE! Stub will be returned with your name, address, and telephone number. **Mail deadline May 20, 2009**

NAME:

CALL:

PHONE:

ADDRESS:

CITY:

STATE:

ZIP:

Check www.breezeshooters.net for forums

VE Testing by the ELWOOD CITY Amateur Radio Association from 12 noon until ?

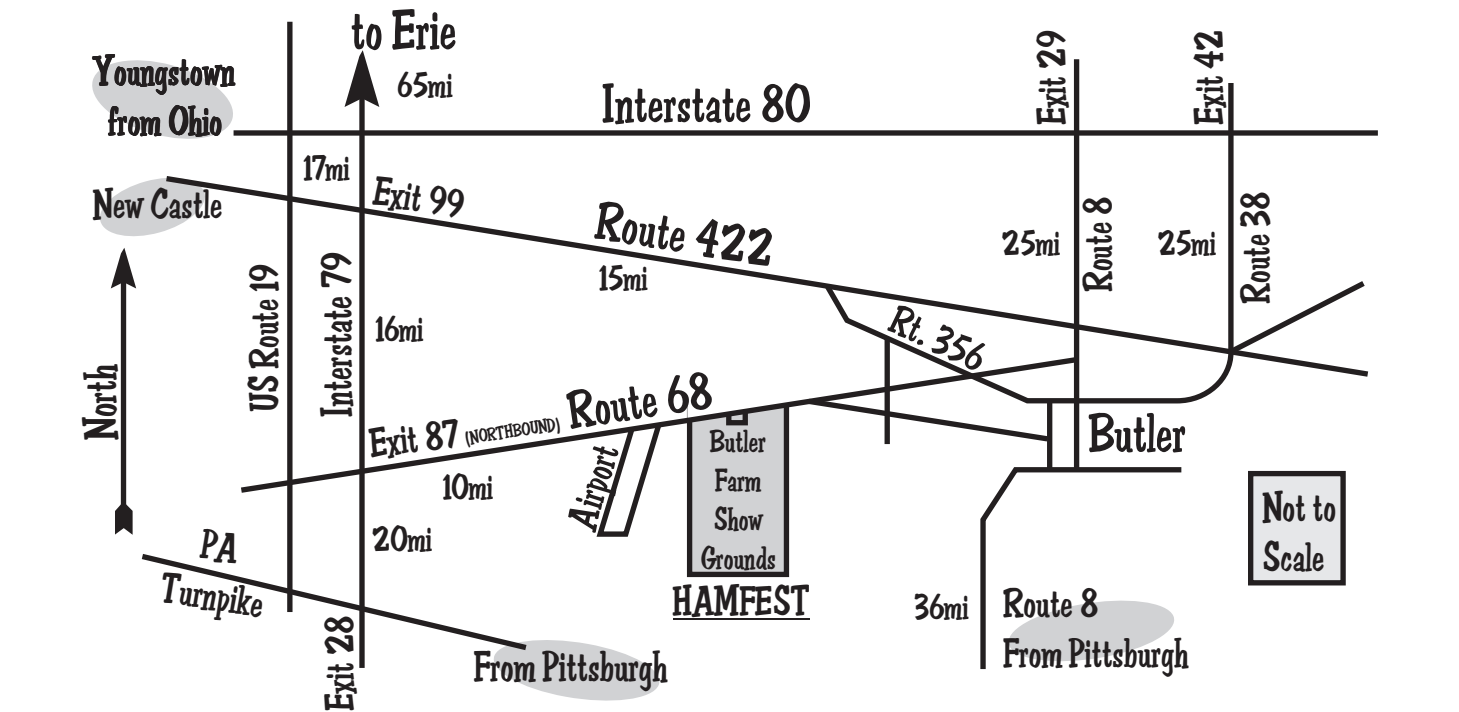
Testing will begin at noon.

If you are only coming for the test session, please let the ticket sales at the entrance know.
They will direct you where to park and how to get to the test site.

Registration on their website: www.qsl.net/ecara/register_1.html

Visit our website for updates
www.breezeshooters.net

30 Acres of outdoor flea market area, over 20,000 sq ft indoor vendor space available @ \$20 a table
25 Acres of parking ~ Handicap Parking Available ~ Overnight Campers welcome, hookups \$10.00
Food and drink sold at the Hamfest by BreezeShooters Concessionaire, No other food or drink sales permitted
Everyone attending is responsible for their own actions and behavior ~ No Firearms Permitted



DIRECTION AND TALK-IN: 147.300+ REPEATER

Latitude North 40 deg. 51.440 min. (40.857333), Longitude West 79 deg. 58.398 min. (-79.9733)
Butler Farm Show Grounds, 627 Evans City Road, Butler, PA 16001

Check our website
www.breezeshooters.net
for VE Testing, Forums,
Meetings, Activities,
and ARRL guests

BREEZESHOOTERS 53rd HAMFEST
PO BOX 100158
PITTSBURGH, PA 15233-0518
Address Service Requested

Kilo Watt Harmonics

THE OFFICIAL (AND
ONLY) NEWSLETTER OF
THE STEEL CITY
AMATEUR RADIO CLUB



**NEXT
MEETING:
8PM
19 MAY 2009**



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<www.w3kwh.com>



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