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# *KiloWatt* **Harmonics**

1941 *The official house organ of the Steel City A.R.C., Pittsburgh, PA.* 2014

*July*  
**2014**  
*Price: FREE!*



**Next meeting date:**  
15 July,  
8:00PM



July 2014

Officers of The Steel City Amateur Radio Club:

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**President:** Brian Cooney, K5BPC

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**Vice President:** Ron Heasley, KB3YYE

'KiloWatt Harmonics' is published monthly for the members of the Steel City Amateur Radio Club.

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Past issues are available at: <www.w3kwh.com>

**Corresponding Secretary:** Bob Mente, NU3Q

Reprints/quotes permitted provided credit is given to original author and the Steel City Amateur Radio Club.

**License Trustee:** Chuck Davis, N3UUZ

SCARC is a not-for-profit organization as defined under IRS Rules & Regulations section 501(C)(3).

SCARC is an ARRL-affiliated organization.



Membership is open to all licensed amateurs & interested persons in the Pittsburgh & metropolitan area.

The opinions expressed in KiloWatt Harmonics are not necessarily those of the club, its members, or its Officers.

The Steel City Amateur Radio Club (412) 787-0777  
2M Repeater: 147.030/147.630MHz (123.0)  
70cm Repeater: 444.450/449.450MHz (103.5) (Off-Line)

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ON THE FRONT COVER:

A field day from long ago.  
From the SCARC photo archives, date unknown.

The business meeting is held every third Tuesday of the month @8:00PM.  
A social night is held every Wednesday night, except for the week of the business meeting. All Amateurs are welcome to attend. A weekly net is held every Tuesday evening @8:00PM on the club's 2M repeater, EXCEPT for the week of the business meeting. All are welcome to check in.

Thanks to the following for your contributions this month: ARRL, Ohio/Penn. DX Bulletin, WA3FWA, N3MSE.

NEXT ARTICLE DEADLINE: 8 AUGUST  
PUBLICATION DATE: 10 AUGUST

Please keep me in the loop on local events, ESPECIALLY Public Service events. Remember: Just because you know what's going on doesn't mean I know what's going on.







## Minutes of the Steel City ARC meeting Tuesday, June 17, 2014.

The meeting started at 8 PM by the President K5BPC with a Pledge of Allegiance, a moment of silence for our Silent Keys, especially KA3VOM and a roll call of 24 members and 2 guests. Minutes of the May meeting were accepted as published in the June newsletter on a motion by KA3MSE. The Treasurer's Report was given by AD3Q in the absence of Treasurer KA3YNO. We have 57 paid members.

Motion to accept report by N3EQP and 2ed by WA3BKD.

### Committee Reports:

Here's the results of the club's Field Day soiree:  
**WHOOPS! Nobody sent 'em to me.**

- ◆ **Clubhouse:** We have 5/8's tanks of water and fuel oil as measured by KB3YYE. N3SBF got a tech to repair our AC. On a motion by KB3YYE and 2ed by WA3BKD, \$175.00 was approved to reimburse N3SBF for the AC repair.
- ◆ **Technical:** WA3BKD stated that the coax, rotator cable and the connector have arrived and that we received \$96.00 for our junk at the Breezeshooters hamfest. He said that we will need to replace the main generator soon preferably with one that runs on propane. The 6M antenna is up and the tribander is assembled to go up on the crank up tower. Both need the coax, rotator cable and connectors to become fully operational.
- ◆ **Contest:** AA3CE will run FD. He also mentioned the Oct. PA QSO party and Jan. VHF contest. Contact him about your operating preferences and bring food.
- ◆ **Membership:** KB3VHT gave the 2ed readings for KA3NGP Gene and Robert Wilson.
- ◆ **Public Service:** NU3Q said KA3MSE ran the last PS net and will run the next one. The NDMS drill will take place on Sat. 7/12 at the airport base. Would like to have an additional volunteer to join the 6 enlisted. KB3ZKC will join if he gets clearance from the base due to his age.
- ◆ **Ways & Means:** WA3FWA will hold the 50/50 raffle after the meeting and collect any outgoing QSL cards for the ARRL bureau.
- ◆ **PC/Web:** K5BPC will order FiOS for the club and reports that 2 security cameras are working.
- ◆ **Volunteer Exams:** AD3Q will hold the next session on July 1. There is a \$15.00 charge for walk-ins. A new pool of Technician questions are in effect for this exam session. If your license is more than 2 years expired, bring proof of the license to an exam session, take the Tech test to retain your old license class. 2 applicants are registered for the exam.
- ◆ **Old Business:** AD3Q received an e-mail request for information about a club ATV repeater. K5BPC will respond to that request. In any event, it is no longer active. N3EQP stated that the library book list and check out form are buried under stuff piled on top of the cabinet.
- ◆ **Education:** WA3BKD reminded us that we have a club net on 147.03 at 8 PM on Tues. nights except for the Tues. meeting night. NU3Q may have a Pittsburgh Tribune newspaper photographer appear at our Field Day.



Motion to Adjourn by KA3MSE, 2ed by WA3BKD.

50/50 winner KA3VHT.

Minutes submitted by Recording Secretary WA3FWA.

Next meeting: 15 July,  
8:00PM.





I am going to start this month's letter with an announcement. **I have decided that I will not seek re-election, nor accept nomination as section manager for Western Pennsylvania in the current election.** I have served in the various aspects of the field organization since December of 1995 and I am looking forward to spending more time with my family and granddaughter as well as more operating time. I want to thank everyone that has been of help in the past, obviously too many to name. Anyone interested in seeking the position of section manager should go to the following web page for requirements and nominating forms. Information regarding the nomination forms and requirements are available at <http://www.arrrl.org/section-terms-nomination-information>. There are links on that page to print the forms.

The month of July has several hamfests available to attend. The first is on July 12 is located in Erie. Additional information for this hamfest is available at <http://www.wattsburg-wireless.us/hamfest.htm>.

The following weekend will have hamfests on both Saturday and Sunday. On Saturday July 19 the North Hills ARC will sponsor their hamfest. Additional information available at <http://www.nharc.org/links/Hamfest%20Handout%202014v1.1.pdf>.

On Sunday July 20 the Somerset County ARC will sponsor their hamfest. A copy of the hamfest flyer is available at <http://www.k3smt.org/images/HamfestFlyer2014-First.pdf>.

I expect to be at each of these events and hope to see many of you there. Please stop at the ARRL table and say hello.

Hope you are enjoying the ARRL centennial events as much as I am. Trying to make contact with each of the stations that are operating as W1AW portable has been a good deal of fun. I need 8 states to complete a worked all states award and a couple of the stickers for territories. Don't forget to check out the information on the league's site regarding the contest as well. Information regarding the centennial QSO party contest can be found at <http://www.arrrl.org/centennial-qso-party>.

July is finally here and with it the warm summer months and often severe thunderstorms. Remember to keep the batteries charged on your hand held devices in the event of power outages.

Remember to join a traffic net and help deliver messages to others. The WPA Phone and Traffic net is the section net and meets daily at 6 P.M. local time on 3983KHz. Join the fun.

See you at the hamfests!

73  
John Rodgers N3MSE  
W. Pa. Section Manager



**ARRL**  
The national association for  
**AMATEUR RADIO**



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♦ **A signal on 8.971 kHz has spanned the Atlantic, from North Carolina to the UK.** Running on the order of 150  $\mu$ w effective radiated power, very low frequency (VLF) experimenter Dex McIntyre, W4DEX, transmitted signals on June 2 and 3 that were detected by Paul Nicholson, an SWL in the UK. Earlier this year, Nicholson detected McIntyre's WH2XBA/4 Experimental Service VLF signal on 29.501 kHz. McIntyre needed no FCC license to transmit on 8.971 kHz, since the Commission has not designated any allocations below 9 kHz -- dubbed "the Dreamers' Band."

"I'll probably make more transmissions on 8.9 kHz when there is no chance of thunderstorms," McIntyre told ARRL this week. "Then, maybe sliding down in frequency to see how low I can go for Paul to detect the signal." Right now, McIntyre said his priority is to complete a transverter for the other end of the spectrum -- 5.7 GHz. He's also working on a second 24 GHz system as a loaner, "so I'll have someone to work," he noted. "Sure is lonely here above UHF."

Nicholson used sophisticated digital signal processing (DSP) software to detect McIntyre's transmission. The distance was approximately 6194 km (approximately 3840 mi). Nicholson was able to detect the VLF signal during both daylight and nighttime paths.



On June 1 and into June 2, McIntyre transmitted a steady, GPS-locked carrier at 8.971.000 kHz. Between 0000 and 0600 UTC, Nicholson measured a carrier at that frequency in Todmorden, UK, with a field strength on the order of 15 nV/m. He combined the electrical and magnetic field receiver outputs to produce a unidirectional antenna response.

"This brought the signal up to a significant level," Nicholson reported. McIntyre's carrier also was visible during a daylight path in a 23  $\mu$ Hz bandwidth, he added.

Is a two-way sub-9 kHz contact in the offing? "A two-way, transatlantic contact would be a hundred times more amazing than just a simple signal detection," McIntyre told ARRL. "I seriously doubt I will ever have that receive capability. But not long ago I seriously doubted I would be the first to receive a transatlantic or New Zealand 137 kHz transmission. Going down in frequency has been as much fun as going higher. It's all RF."

♦ **A bill with bipartisan support has been introduced in the US House of Representatives that calls on the FCC to apply the "reasonable accommodation" three-part test of the PRB-1 federal pre-emption policy to private land-use restrictions.** HR.4969, the "Amateur Radio Parity Act of 2014" was introduced on June 25 at the request of the ARRL, which worked with House staffers to draft the proposed legislation. The bill's sponsor is Rep Adam Kinzinger (R-IL). It has initial co-sponsorship from Rep Joe Courtney (D-CT). If the measure passes the 113th Congress, it would require the FCC, within 120 days of the Bill's passage, to amend the Part 97 Amateur Service rules to apply PRB-1 coverage to include homeowners' association regulations and deed restrictions, often referred to as covenants, conditions, and restrictions" (CC&Rs). Presently, PRB-1 only applies to state and local zoning laws and ordinances.

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The 11-page PRB-1 FCC Memorandum Opinion and Order is codified at Part 97.15(b) in the FCC Amateur Service rules, giving the regulation the same effect as a federal statute. In short, PRB-1 states that local governments cannot preclude Amateur Radio communications; they must "reasonably accommodate" amateur operations, and the state and local regulations must be the minimum practicable regulation to accomplish a legitimate governmental interest. Subject to those guidelines, municipalities may still establish regulations with respect to height, safety, and aesthetic concerns.

For 28 years, FCC regulations have "prohibited the application to Amateur Radio stations of state and local regulations that preclude or fail to reasonably accommodate Amateur Service communications," the bill points out, "or that do not constitute the minimum practicable regulation to accomplish a legitimate state or local purpose." Since PRB-1 was enacted, the FCC has said several times that it would prefer to have some guidance from Congress before extending the policy to private land-use regulations.

HR.4969 has been referred to the House Energy and Commerce Committee. Rep Greg Walden, W7EQI (R-OR), chairs that panel's Communications and Technology Subcommittee, which will consider the measure.





- ♦ **REPUBLIC OF KOREA, HL.** A large group of operators are QRV as 6M6M until July 31. Activity is also on 6 meters EME. QSL via HL2UVH.
- ♦ **ANTARCTICA.** Paride, IZ3SUS is QRV as IA/IZ3SUS until November as part of the team that currently operates the station Dome Concordia, Dome C, in Eastern Antarctica. QSL direct to I1HYW.
- ♦ **ANTARCTICA.** Hector, LU6LGA is currently posted to the San Martin Base on Barry Island, IOTA AN-016, and is QRV as LU1ZD until March 2015. He is usually active on 80 and 10 meters. QSL via LU4DXU.
- ♦ **MINAMI TORISHIMA, JD1.** Take, JG8NOJ is QRV as JG8NOJ/JD1 until mid September. QSL to home call.
- ♦ **SENEGAL, 6V.** Heinz, DO3MY, will be active as 6V1W from Point des Almadies, Dakar, between the months July and September. Activity will be on the HF bands. QSL via his home callsign.
- ♦ **TANZANIA, 5N.** Flavio, IW2NEF, will be active as 5H1NE (pending) from Zanzibar Island (AF-032) between July 22nd and August 6th. Activity will be holiday style on the HF bands using SSB only. QSL via IK2DUW.
- ♦ **CAYMAN ISLANDS, ZF.** Members of the Cayman Amateur Radio Society will once again activate ZF1A during the IARU HF World Championship (July 12-13th). QSL via K6AM, direct by the Bureau or LoTW.
- ♦ **TURKEY, TA.** Lars, LB2TB plans to be QRV as TA4/LB2TB from July 1 to 29. QSL via operator's instructions.
- ♦ **EUROPEAN RUSSIA, UA.** Operators from Sergiev Posad are QRV using special event call sign R700SR until August 15 to commemorate the 700th birthday celebration and honor the memory of Sergius of Radonezh, a Russian Orthodox saint. Activity is on the HF bands and 2 meters using CW, SSB, digital modes, FM, JT65V EME and JT65A Tropo. QSL via RA3DUW.
- ♦ **LAOS, XW.** Larry, AG6OU will be QRV as XW6OU beginning July 1. Activity is on 20 meters. His length of stay is unknown. QSL via E21EIC.
- ♦ **According to the AR-Cluster Network for the week of Sunday, 22nd-June, through Sunday, 29-June there were 200 countries active.** Countries available: 3A, 3B8, 3B9, 3D2, 3W, 4J, 4L, 4O, 4S, 4W, 4X, 5B, 5R, 5T, 5W, 5Z, 6Y, 7P, 7Q, 7X, 8P, 9A, 9H, 9J, 9K, 9M2, 9M6, 9V, 9Y, A3, A4, A5, A6, A7, A9, BV, BY, C3, C6, C9, CE, CE9, CM, CN, CP, CT, CT3, CU, CX, D2, D4, DL, DU, E4, E5/s, E6, E7, EA, EA6, EA8, EA9, EI, EK, ER, ES, EU, EX, EY, EZ, F, FG, FH, FJ, FK, FM, FO, FP, FR, FS, G, GD, GI, GJ, GM, GU, GW, HA, HB, HB0, HC, HH, HI, HK, HL, HP, HR, HS, HZ, I, IS, J2, J6, J8, JA, JD/o, JT, JW, JY, K, KG4, KH2, KH6, KL, KP2, KP4, LA, LU, LX, LY, LZ, OA, OD, OE, OH, OH0, OK, OM, ON, OX, OZ, P2, P4, PA, PJ2, PJ4, PJ7, PY, PZ, S0, S5, S7, SM, SP, ST, SV, SV5, SV9, T7, TA, TF, TG, TI, TJ, TK, TR, TY, TZ, UA, UA2, UA9, UK, UN, UR, V3, V4, V5, V7, V8, VE, VK, VP2E, VP5, VP6, VP8, VP9, VR, VU, XE, XU, XW, YA, YB, YI, YL, YN, YO, YS, YU, YV, Z3, Z8, ZA, ZB, ZC4, ZD7, ZD8, ZD9, ZF, ZL, ZP, ZS. PLEASE NOTE: The report "could" contain "Pirate/SLIM" operations or more likely a "BUSTED CALLSIGN". As always, you never know - "Work First Worry Later".
- ♦ **PALAU, T8.** Ken, BM2JCC/JP1RIW, will once again be active as T88KH from the "West Plaza Hotel by the Sea" (GRID PJ77FI) on Koror Island (OC-009) between July 9-13th. Activity will be on 80-6 meters, including the 17/12m and mostly on the High Band on SSB using 500w on HF and 100w on 6m. His antennas are: 80m Vertical, 40/30m DP, 20/15/10m 3 element Beam, 17/12m 2 element HB9CV and 6m 5 element Beam. QSL via BM2JCC.
- ♦ **CORSICA, TK.** TK14CC will be QRV from July 5 to 19, holiday style, on 80 to 6 meters, primarily on CW but with a little SSB and digital. He may go portable as well from some other sites on the island, as TK14CC/P from the rare JN43 grid, on 6 meters.
- ♦ **GEORGIA, 4L.** The National Association of Radioamateurs of Georgia, NARG, will be active in the IARU HF World Championship as 4LOG. Operators include 4L2M, 4L5C, 4L5DJ and 4L2IKA.
- ♦ **CYPRUS, 5B.** Tony, RT9T will be QRV as 5B4ALB from July 6 to 16. During the IARU HF World Championship he will join the P3N team. QSL 5B4ALB only direct via RT9T.

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## >> Local repeating events <<

**NETS: (Set your 2M FM tone to 131.8 for all except QCWA which is 123.0.)**

Breezeshooters net: 28480KHz every Monday night @9:00PM local.

Allegheny County ARES net: 147.090MHz (+600KHz offset) every Wednesday night @ 9:00PM local. The back-up machine is the 146.730MHz (-600KHz offset) repeater.

WACOM 2M Net: 145.490MHz (-600KHz offset) every Tuesday @8:30PM local.

WACOM 10M net: 28340KHz every Tuesday @9:00PM local.

WACOM YL Net: 146.790MHz (-600KHz offset) every Wednesday @7:30PM local.

WACOM Elmer net: 146.790MHz (-600KHz offset) every Wednesday @8:00PM local.

WASH 2M net: 146.955MHz (-600KHz offset) every Sunday night @9:00PM local.

WASH Digi Net, Wednesdays @ 9:30PM local, 146.955 repeater. Mode: MT63-2KL

NHARC net: 147.090MHz (+600KHz offset) every Tuesday night @8:30PM local.

QCWA Chapter 6: 147.030 (+600KHz offset) every Sunday morning @8:30AM local.

Beaver County Public Service Net: 146.850MHz (-600KHz offset, tone 88.5)

every Monday night @8:30PM local.

### LOCAL CLUB MEETINGS:

SCARC: The third Tuesday of the month, 8:00PM @ the clubhouse.

SCARC Social night: Every Wednesday, except the week of the business meeting, 7:00PM or so @ the clubhouse.

WASH: The second Thursday of every month, 7:00PM @ the Crossroads Ministries Church, 88 Walter Long Road, off Route 88, Finleyville, PA.

WACOM: The first Thursday of every month, 7:30PM @ the Washington County Building, Room 103, 100 West Beau Street, Washington, PA. 15301.

GPVHF Society: The first Monday of every month, 7:00PM @ the Salvation Army Disaster Services HQ, 820-825 Parish Street, Pittsburgh, PA. 15220.

North Hills ARC: The second Wednesday of every month, 7:00PM @ the Parkwood United Presbyterian Church, 4289 Mt. Royal Blvd., Allison Park, PA. 15101. (NEW LOCATION.)

Skyview: The first Tuesday of every month, 7:30PM @ the clubhouse, 2335 Turkey Ridge Road, New Kensington, PA. 15068.

Beaver Valley ARA: The second Thursday of every month, 6:30PM @ the Beaver County Emergency Operations Center, 351 14th Street, Ambridge, PA. 15003.

### MISCELLANEOUS:

WASH breakfast: Last Saturday of every month, 8:00AM @ Suzy B's, Route 910 @ Route 519 @ US 19, Canonsburg, PA.

Beaver Valley ARA breakfast: Every Thursday, 10:30AM @ Rainaldi's Restaurant, 210 Fairview Drive, Center Township, PA. 15061. (724-774-1877)

TRARC Hams & Eggs breakfast: 2nd Saturday of the month, Kings Family Restaurant, Route 48 & US Route 30, North Versailles. 9:00AM.

Send any additions/corrections to: <KQ3DX@hotmail.com>.

## NHARC-sponsored nets:

- Sundays at 7:30 p.m. - 147.090 - South-1 Dist. ARES Net
- Sundays at 8:30 p.m. - 146.880 - NHARC Club Teen (Under 21) Net (Contact: Local EC)
- Sundays at 9 p.m. - 147.090 - Pittsburgh Area Scanners Net (Contact: WA3FKG)
- Wednesdays at 9 p.m. - 147.090 - Allegheny County Public Service Net (Contact: N3RDV)
- Thursdays at 7 p.m. - 146.880 - Scout Net (Contact: N3ZX)
  - Thursdays at 8:30 p.m. - 50.50MHz - 6 Meter Net
- Thursdays at 9:30 p.m. - 146.880 - Rail Fan Net (Contact: KB3HPC)
- Saturdays at 9 p.m. - 146.880 - NHARC Elmer Net (Contact: N3BPB)
  - Every Day at 8 p.m. - 146.880 - Western PA 2m Traffic Net (Contact KA3BGC)
- 1st & 3rd Wednesday of every month at 8:30 p.m. - 147.090 - Allegheny County Skywarn Net



**CAN YOU HELP WITH THESE EVENTS?>>>**



TOM  
DAVE  
JAY  
BOB  
JASON  
MARK  
STEW  
JUERGEN  
COLI N  
BRI AN  
BI LL  
BRI AN  
SUE  
DEAN  
LLOYD  
CHRI S  
WALT  
TOM  
CAROL  
BOB  
JOYCE  
KEN  
JOHN  
RON  
GABE  
JEFF  
JENNI FER  
JAMES  
DOC  
DELLA  
BI LL  
JOHN  
BRUCE  
GLORI A  
BOB  
LEE  
RI CHI E  
CHUCK  
BI LLY  
GREG  
KEN  
BOB  
DOUG  
RI CH  
NATE  
TI M  
ART  
JOE  
MI KE  
MEL  
KARL  
BOB  
JOE  
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AA3CE  
AA3EE  
AB3KD  
AD3Q  
AE3JM  
AI 3J  
AK3J  
DC3RJ  
KOLI N  
K3BAK  
K3RYA  
K5BPC  
KA3JKS  
KA3LI W  
KA3MSE  
KA3PXQ  
KA3YNO  
KB3CZX  
KB3GMN  
KB3NZX  
KB3ORO  
KB3REE  
KB3VHT  
KB3YYE  
KB3ZKC  
KC3BYN  
KF5ODL  
KJ3D  
KT3L  
N3DQ  
N3DXE  
N3EQP  
N3GHI  
N3GHO  
N3LL  
N3SAF  
N3SBF  
N3UUZ  
N3VEF  
NB3C  
NN3F  
NU3Q  
W3HH  
W3RKT  
W3SVJ  
W3WTW  
WA3BKD  
WA3FWA  
WA3PYU  
WA3RVD  
WA3VXJ  
WA3YCU  
WB3AGB  
WB3CRC  
WB3HDI  
WB3JLK  
WQ3T

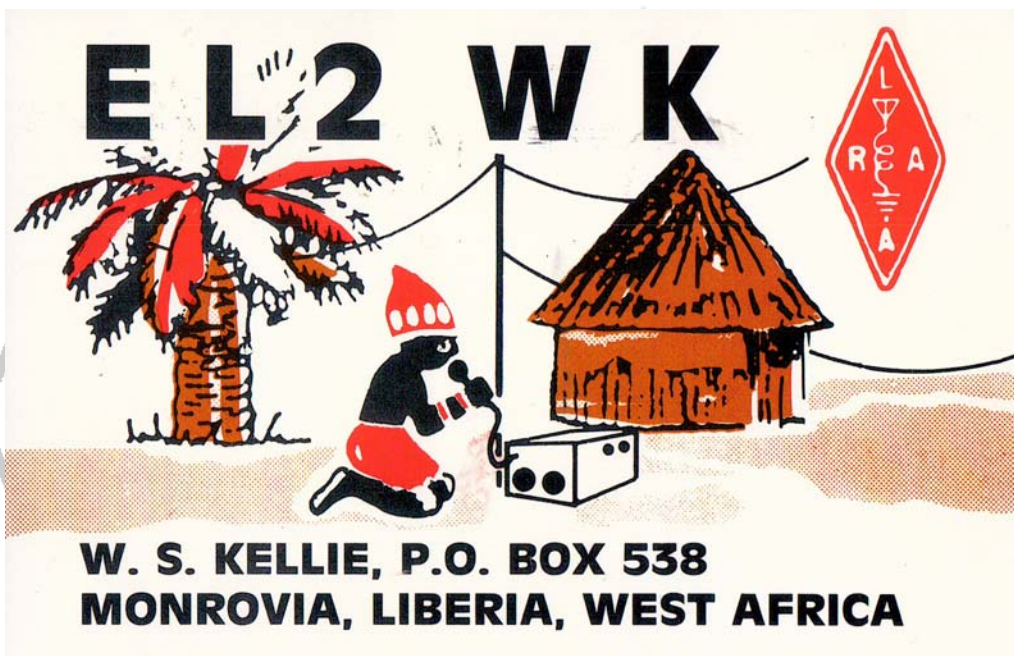
**ROLL-CALL**

(If your call isn't here, and should be, lemme know: <KQ3DX@hotmail.com>)

**Local & Repeating Events/Club Roster**

July 12: NDMS drill,  
July 12-13: PVGP race at BeaveRun race complex, AKA PittRace,  
July 19-20: PVGP race at Schenley Park,  
July 19: NHARC hamfest,  
July 20: SCARC hamfest,  
July 19-20: CQWW VHF Contest.





This card pictured at the left is the reason I became a ham. Well, mebbe not the card itself, but rather the concept that it represents.

When I was a kid, this is the exact image I had in my mind as to what ham radio was: Talking to someone in a far-off tropical land, in a grass shack, with a wire antenna strung between two palm trees. I don't know if it was the simplicity of being able to communicate using nothing more than a wire strung out a window, or if it was the ability to hear signals from exotic places all over the

world that only existed on a map to me, but I knew as a 12 or 13 year old pimply-faced teenager that I wanted to be an Amateur Radio operator. I was an avid SWL'er for many years prior to that, and I got a big kick out of waking up to Radio Australia every school morning. I still get a thrill out of working guys in the Pacific, Asia, Antarctica, all kinds of places, some of which only hams or cartographers have ever heard of.

I mean, think about it; with Amateur Radio, you have the ability to be heard all over the world using just a few watts. Instantaneously. Right now. A live person on the other end of the circuit. Someplace tropical and exotic. Someplace cold and desolate. Someplace you may have never heard of, until now. No sending an E-Mail and waiting for an hour or two, or maybe a day for a response. It's not dependent on a fast Internet connection. It's live! The sky's the limit, no pun intended.

Out of all the DX QSL cards I have, this one is my favorite. It hits the nail right on the head as to why I'm a ham radio operator. The concept that this card represents is still as thrilling and meaningful to me today as it was those 30+ years ago. My model trains came and went, along with my comic books, but my ham radio interest endures to this day, still going strong. What's your story?

## July is gonna be busy, busy, BUSY!

July 12: NDMS drill,  
 July 12-13: PVGP race at BeaveRun race complex, AKA PittRace,  
 July 19-20: PVGP race at Schenley Park,  
 July 19: NHARC hamfest,  
 July 20: SCARC hamfest,  
 July 19: IARU HF Championship,  
 July 19-20: CQWW VHF Contest.

Wanna volunteer for either or both of the PVGP race weekends?  
 Ring Corky Bennett, N3MJP on (724) 217-5458.

Wanna volunteer for the NDMS drill? E-Mail Lloyd Craft, KA3MSE on the SCARC reflector.

**BTW:** I worked this gent years ago during Cycle 22 using my KD3JB call, probably late '80's or the very early '90's. RARELY did the Solar Flux drop below 200. Man, but the bands were hot then! I remember coming home from work at 11:30PM, and staying up until 6:00AM, workin' guys all over the world. 20M never closed, 15M was open past midnight local, and 10M was open past 10:00PM local. The bands would close to one part of the world, then open to another. Even working Europe on 160M was a breeze. DX nets abounded on 15, 20 and 40M. You chasers of DX, remember the Arabian Knights DX net, run by Zedan, JY5ZH? How about the Triple-Two DX Net, run by Jim Smith, VK9NS? How about the Snookie net on 15M, or the 20M version? Or the W7PHO Family Hour early in the morning on 20M, and the KDOJL 40M DX Net? There was ALWAYS something on from a rare locale worth working.



# July 2014 - August 2014

>>The Steel City A.R.C bi-monthly contest/event planner<<

**July 2014**

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

**September 2014**

S	M	T	W	T	F	S
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13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

**November 2014**

S	M	T	W	T	F	S
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23	24	25	26	27	28	29
30						

**January 2015**

S	M	T	W	T	F	S
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11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

**March 2015**

S	M	T	W	T	F	S
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15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

**May 2015**

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24	25	26	27	28	29	30
31						

July 2014			August 2014		
1	Tue	RAC Canada Day Contest	2	Sat	ARRL August UHF Contest
2	Wed	SCARC Social Night	2	Sat	TARA Grid Dip Shindig
4	Fri	HAPPY BIRTHDAY USA!	2	Sat	10-10 Int'l. Summer Contest SSB
4	Fri	MI QRP July 4th CW Sprint	2	Sat	European HF Championship
5	Sat	MI QRP July 4th CW Sprint	2	Sat	North American QSO Party CW
5	Sat	Venezuelan Ind. Day Contest	3	Sun	ARRL August UHF Contest
5	Sat	DL-DX RTTY Contest	3	Sun	10-10 Int'l. Summer Contest SSB
6	Sun	Venezuelan Ind. Day Contest	3	Sun	North American QSO Party CW
6	Sun	DL-DX RTTY Contest	3	Sun	SARL HF Phone Contest
6	Sun	DARC 10-Meter Digital Contest	6	Wed	SCARC Social Night
9	Wed	SCARC Social Night	9	Sat	WAE DX Contest CW
12	Sat	PVGP BeaveRun Race Weekend	9	Sat	Maryland-DC QSO Party
12	Sat	IARU HF World Championship	10	Sun	WAE DX Contest CW
12	Sat	FISTS Summer Sprint	10	Sun	Maryland-DC QSO Party
13	Sun	PVGP BeaveRun Race Weekend	13	Wed	SCARC Social Night
13	Sun	IARU HF World Championship	13	Wed	NAQCC Straight Key/Bug Sprint
15	Tue	SCARC Business Meeting	16	Sat	North American QSO Party SSB
17	Thu	NAQCC Straight Key/Bug Sprint	16	Sat	SARTG WW RTTY Contest
19	Sat	NHARC Hamfest	16	Sat	ARRL 10 GHz and Up Contest
19	Sat	PVGP Schenley Park Race Weekend	17	Sun	North American QSO Party SSB
19	Sat	CQ Worldwide VHF Contest	17	Sun	SARTG WW RTTY Contest
19	Sat	DMC RTTY Contest	17	Sun	ARRL 10 GHz and Up Contest
19	Sat	North American QSO Party RTTY	19	Tue	SCARC Business Meeting
20	Sun	PVGP Schenley Park Race Weekend	23	Sat	Hawaii QSO Party
20	Sun	CQ Worldwide VHF Contest	23	Sat	Ohio QSO Party
20	Sun	Somerset ARC Hamfest	24	Sun	Hawaii QSO Party
20	Sun	DMC RTTY Contest	24	Sun	Ohio QSO Party
20	Sun	North American QSO Party RTTY	25	Mon	Hawaii QSO Party
23	Wed	SCARC Social Night	27	Wed	SCARC Social Night
26	Sat	RSGB IOTA Contest	30	Sat	SCC RTTY Championship
27	Sun	RSGB IOTA Contest	30	Sat	YO DX HF Contest
30	Wed	SCARC Social Night	31	Sun	SCC RTTY Championship
			31	Sun	YO DX HF Contest
			31	Sun	SARL HF CW Contest

**August 2014**

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**October 2014**

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11	12	13	14	15	16	17
18	19	20	21	22	23	24
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**December 2014**

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**February 2015**

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24	25	26	27	28	29	30
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**April 2015**

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17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

**June 2015**

S	M	T	W	T	F	S
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						2
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24	25	26	27	28	29	30
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Steel City Amateur Radio Club  
P.O. Box 281  
Carnegie, Pennsylvania 15106

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

# *KiloWatt* **Harmonics**

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THE OFFICIAL HOUSE ORGAN OF  
THE STEEL CITY AMATEUR RADIO  
CLUB, PITTSBURGH, PA.

2014

**NEXT  
MEETING:  
15 JULY,  
8:00PM**

