

KiloWatt **Harmonics**



< www.w3kwh.com >

February 2014
Price: FREE!

1941

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

2014

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Our next meeting date: February 18, 8:00PM.



February 2014

Officers of The Steel City Amateur Radio Club:

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

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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: Our Recording Secretary Joe, WA3FWA giving a demo on how to operate a code key to some young scouts. From JOTA 2010.

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. Interested in joining SCARC? An application for membership is enclosed in this newsletter. Fill it out and bring to a social meeting, or to the business meeting.

Thanks to the following for your contributions this month: ARRL, 425 DX News, Ohio/Penn. DX Bulletin, WA3FWA, AD3Q, WA3VXJ, KB3GMN, N3MSE, AA3EE.

NEXT ARTICLE DEADLINE: 7 MARCH 2014
PUBLICATION DATE: 9 MARCH 2014

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.





Meeting of the Steel City A.R.C. Tues. Jan. 21, 2014.

Meeting was held at King's restaurant on PA Rt. 60, Crafton due to winter weather. Conducted by President K5BPC at 8 PM with a Pledge of Allegiance, a Moment of Silence for our Silent Keys and a Roll Call of 18 members and 1 guest. Dec. meeting minutes were accepted as printed in the Jan. 2014 newsletter. Treasurer's report was given by Treasurer KA3YNO and accepted by the membership. \$1000.00 was paid to the CCAC scholarship recipient.

Committee Reports:

- ⇒ **Clubhouse:** AA3EE reports that the inside of the clubhouse is clean.
- ⇒ **Contest:** WA3VXJ garnered 21 QSO's and 24 points in the Jan. 17 Breezeshooters PSK31 ground wave contest. WA3BKD plans to work the CW segment of the ground wave contest on Feb. 15 from the clubhouse.
- ⇒ **Newsletter:** Editor NB3C needs more member info to print in the newsletter. (Pics & articles too.)
- ⇒ **Public Service:** KA3MSE will run the public service net on Feb 12. KA3JKS said volunteers are needed for the St. Patrick Day's parade.
- ⇒ **Ways and Means:** WA3FWA will not have the 50/50 raffle tonight, but will collect any outgoing DX QSL cards for the ARRL. P.O. Box fee for the year 2014 has been paid.
- ⇒ **PC:** K5BPC will investigate a Verizon FIOS upgrade from DSL for the club's benefit.
- ⇒ **Volunteer Exams:** AD3Q has scheduled exam sessions for Apr. 1, July 1 and Oct. 7.
- ⇒ **Technical:** K5BPC introduced a planning committee of WA3BKD, AA3EE and AA3CE for future technical enhancements. Any new projects should be brought to a technical committee member's attention, headed by WA3BKD, which will be brought up at a meeting, after it is thoroughly considered. This will hopefully eliminate a lengthy free-for-all at meetings with several members bringing up different projects which will lead to marathon discussions.
- ⇒ **New Business:** K5BPC will start up an education committee consisting of AD3Q, WA3BKD, N3EQP and KC3APP to teach the use of club equipment and make relevant presentations. Will also try to conduct Elmer nights to do hands-on projects with the members on Wed. nights and form a club on-the-air net.
- ⇒ **Good of the Order:** WA3BKD gave info about the scholarship recipient, Kyleigh KB3RXK. She is a nursing student at CCAC and heard about our scholarship from WC3O at Skyview A.R.C. where her and her ham father are affiliated. We plan to have her visit SCARC in the near future.
- ⇒ **Motion to Adjourn:** by AD3Q



Our next meeting: February 18th, 8:00PM. I don't think I need remind you that it is still winter-time out there. Therefore, keep an ear open to the repeater for any weather-related changes to the schedule or location.





2014 is well started and we have already had several severe snowfalls and bitter cold days. Remember to keep the batteries charged in your handhelds in the event of power loss.

Many exciting activities have been occurring with regard to ARES and our plans for the new year. First, be sure to mark your calendars for June 14, 2014. This is the date for this year's upcoming EMCOMM conference at the University of Pittsburgh, Johnstown campus. This is the same location as last year. Presentations during the morning will be followed with breakout sessions and workshops in the afternoon. Be sure to frequently check the website for additional details: <<http://wpaares.org>>.

A very strong effort will be made this year to move forward with advancing the ARES program in W. Pa. One area is the D-STAR net and program. John Szwarc, N3SPW has been appointed a Technical Specialist and will be managing the D-STAR initiative and net. The net is on Monday nights and the is conducted on reflector REF063 Module 'C' and starts at 9 PM. Most WPA area D-STAR repeaters auto-link to the reflector for this net, so be sure to check your local repeater's link status before attempting to link to the reflector. A Yahoo group has been formed: 'W. Pa. D-STAR', and is open to interested individuals. For additional information please contact John at <n3spw@arrl.net>.

Saturday mornings at 9:00AM, the Western Pa. ARES net is on 3983 KHz. I encourage all hams interested in ARES to join the net for updates and information. Harry Bloomberg, W3YJ, our Section Emergency Coordinator will be reviewing the ARES plans in all of the counties and making any changes necessary to help build activity in those counties. Harry continues to conduct the training net for NBEMS as well.

A new mode of operation is in its infancy here in the section: HSMM. 'High Speed Multi-Media' is the term for this mode, and is comprised of internet routers and laptops as well as webcams and radios. If your group would like to have Harry or myself visit your group contact us for scheduling. (See E-Mail addresses to the right.)

I would like to announce the appointment of Juan Manfredi, NA0B, as Assistant Section Manager, Education. Juan is a professor of Math at Pitt and is also the Vice Provost for Undergraduate Studies. Thank you Juan, for accepting this position.

The first hamfest of the season will be held on Sunday, February 23. This is the WASHFest in Castle Shannon. Additional information may be obtained by visiting <<http://www.n3sh.org/hamfests.htm>>.

Be sure to participate in the many nets that are being conducted in the section. Section traffic net is daily at 6:00PM local on 3983 KHz.

John V. Rodgers, N3MSE
ARRL W. Pa.
Section Manager



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⇒ Industry Canada has granted Amateur Radio operators there the use of five 60 meter channels on a non-interference basis. The center-channel frequencies harmonize with those available to US radio amateurs on 60 meters: 5332 kHz, 5348 kHz, 5358.5 kHz, 5373 kHz, and 5405 kHz.

"[G]iven that use of these frequencies was requested, in part, to allow for cross-border communications in times of emergency, "Industry Canada said, "harmonization of the frequencies with the United States would facilitate such communications between the Canadian and the US Amateur Radio communities."

Amateur stations will be restricted to USB, data, RTTY and CW modes, with a maximum bandwidth of 2.8 kHz, and a maximum power output of 100 W ERP - the same the US allows.

"Canadian amateur operations shall not cause interference to fixed and mobile operations in Canada or in other countries," Industry Canada ruled, "and, if such interference occurs, the Amateur Service may be required to cease operations. The Amateur Service in Canada may not claim protection from interference by the fixed and mobile operations of other countries."



Ham Radio
in the 21st Century

⇒ Cuba's Ministry of Communications is reported to have made available to its radio amateurs a 12 kHz segment of 60 meter spectrum, instead of individual channels, as the US and other countries have done. Access is not immediate. Hams in Cuba must obtain approval & a license modification. Access to 5418 to 5430 kHz will be on a secondary basis, with emphasis on its use during emergencies.

"Cuba is in the path of the Caribbean hurricanes every year, and this band allows a steady communication path for all the island," said Pavel Milanes Costa, CO7WT, in Camagüey, who posted the news on the Internet. Cuban hams will be allowed to use SSB, CW, and PSK31 and PSK63 in the new mini-band. Once an official emergency is declared in Cuba, band usage will be restricted to emergency traffic only. Hams in Cuba may run 50 W (10 W for Novice licensees) on 60 meters, although 100 W would be permitted in an emergency if needed to provide a reliable link.

At World Radiocommunication Conference (WRC) 2007 it was Cuba that suggested establishing an allocation to the Amateur Service on a secondary basis within the band 5250 to 5450 kHz. The item failed at WRC-2012 but will be on the agenda of WRC-2015 as Agenda Item 1.4. The FCC authorized five channels for US radio amateurs after consulting with the National Telecommunications & Information Administration (NTIA) regarding ongoing government use of that region of the spectrum. The US channels were specifically chosen to avoid Amateur Radio interference to government operations.

⇒ The Portuguese telecommunications regulator ANACOM has granted radio amateurs temporary use of the extended 160 meter band segment 1850 to 2000 kHz to participate in several major operating events during 2014.

"The authorization for temporary use of 1850 to 2000 kHz may not be used for other purposes within the amateur service, nor any other radio services," the ANACOM announcement said.

Hams in Portugal may use that part of 160 meters to participate in the CQ World Wide 160 Meter Contest (CW); the ARRL International DX Contest (CW and phone); the CQ World Wide 160 Meter Contest (SSB); the CQ WW WPX (CW and phone); the King of Spain Contest (CW and phone); the IARU HF Championship; the CQ WW DX Contest (CW and phone), and the ARRL 160 Meter Contest.

Operations may not interfere with other radio services. ANACOM said the temporary grant does not infer any expectation regarding future use of the band segment.

On 160 meters, hams in Portugal have access to 1810 to 1830 kHz with 200 W maximum EIRP, and 1830 to 1850 with up to 1500 W maximum EIRP. -- ANACOM

"National news briefs" appears courtesy of the ARRL Bulletin, and is ©2014, ARRL.

(More national news briefs on [page 10.](#))





- ⇒ **OPERATIONS APPROVED FOR DXCC CREDIT.** The following operations are approved for DXCC credit: Tristan Da Cunha and Gough Island, ZD9KX, 2012 and 2013 operation. **T6EU, Afghanistan; current operation through May 3, 2014.** TT8ES, Chad: This operation was previously approved for 2012 and 2013 and the license has been extended through February 28, 2014. Also approved: **7Z1ES, Saudi Arabia,** CY0P, Sable Island; 2013 operation, **T6ZG, Afghanistan; current operation.**
- ⇒ **PHILIPPINES, DU.** Mike, W6QT is QRV as DU3/W6QT from Luzon Island, IOTA OC-042, until March 2014. Activity is on the HF bands. QSL to home call.
- ⇒ **MALDIVES, 8Q.** Tatsu "Ted", JF1CCH, will be active as 8Q7TS from Hulhumale Island between March 20-31st. Activity will be on 40-10 meters, possibly 160/80m, using CW, SSB and RTTY. Operations will also include the CQWW WPX SSB Contest (March 29-30th). QSL via his home callsign.
- ⇒ **ANTARCTICA, D8.** Lee, DS4NMJ, and a scientific team are expected to leave on January 25th, for the new Jang Bogo Korean research station currently under construction at Terra Nova Bay, Northern Victoria Land, Antarctica. The base will be in the Ross Dependency and near the Italian Zucchelli Station and is scheduled to open February 12th. The team, aboard the ice breaker Araon, is planning to be at Jang Bogo by early February. Look for activity by Lee as D8A sometime in mid-February. Lee informs OPDX that he will be at Jang Bogo until January 31st, 2015. Activity will be on 160-10 meters using mostly CW with some SSB and RTTY as well. QSL via HL2FDW.
- ⇒ **RUSSIA, UE80.** Look for special event station UE80HS to be active between March 1-31st. Activity is to honor and celebrate the 80th anniversary of the first astronaut Yuri Gagarin. QSL via RW6HS.
- ⇒ **JAMAICA, 6Y.** Yuri, VE3DZ, is once again active as 6Y2T from Jamaica (NA-097) Between February 11-18th. Activity will include the ARRL DX CW Contest (February 15-16th) as a Single-Op/All-Band/High-Power entry. Operations outside of the contest will be on 160-10 meters, including the 30/17/12 meter bands using CW, SSB and RTTY. QSL via VE3DZ.
- ⇒ According to the AR-Cluster Network for the week of Sunday, 26th-January, through Sunday, 2nd-February there were **223 countries active.** Countries available: 3A, 3B8, 3B9, 3D2, 3DA, 3V, 3W, 4J, 4L, 4O, 4S, 4X, 5B, 5N, 5R, 5W, 5Z, 6W, 6Y, 7O, 7P, 7Q, 7X, 8P, 8Q, 8R, 9A, 9H, 9J, 9K, 9L, 9M2, 9M6, 9V, 9X, 9Y, A4, A5, A6, A7, A9, AP, BV, BY, C3, C5, C6, C9, CE, CE9, CM, CN, CP, CT, CT3, CU, CX, D2, D4, DL, DU, E5/s, E7, EA, EA6, EA8, EA9, EI, EK, EP, ER, ES, ET, EU, EX, EY, EZ, F, FG, FH, FJ, FK, FM, FO, FP, FR, FT5Z, FW, FY, G, GD, GI, GJ, GM, GU, GW, HA, HB, HB0, HC, HI, HK, HL, HP, HR, HS, HV, HZ, I, IS, J2, J3, J5, J6, J7, J8, JA, JD/o, JT, JW, JX, JY, K, KG4, KH0, KH2, KH6, KL, KP2, KP4, LA, LU, LX, LY, LZ, OA, OD, OE, OH, OH0, OK, OM, ON, OX, OY, OZ, P2, P4, PA, PJ2, PJ4, PY, PZ, S5, S9, SM, SP, ST, SU, SV, SV5, SV9, T5, T7, T8, TA, TF, TG, TI, TJ, TK, TN, TR, TT, TY, UA, UA2, UA9, UK, UN, UR, V3, V4, V5, V6, V7, V8, VE, VK, VP2E, VP2V, VP6, VP8, VP8/h, VP9, VQ9, VR, VU, XE, XT, XU, XW, YA, YB, YI, YL, YN, YO, YS, YU, YV, Z2, Z3, Z8, ZA, ZB, ZD7, ZD8, ZF, ZL, ZP, ZS, ZS8.
- ⇒ **ANNONON ISLAND AND EQUATORIAL GUINEA, 3C0/3C4.** Elmo, EA5BYP, is now active as 3C0BYP from Annobon Island (AF-039) until March 8th. Activity will be on SSB, RTTY and some CW. There is a possibility of him making a trip to Bioko Island (AF-010), Equatorial Guinea, to be active as 3C4BYP, after his operation on Annobon. QSL via his home callsign.
- ⇒ **GUAM, KH2.** Hisashi, JF2SKV, will once again be active as NH0S/KH2, this time during the ARRL DX CW Contest (February 15-16th) as a Single-Op/All-Band/High-Power entry. QSL via JF2SKV.
- ⇒ **AMERICAN SAMOA, KH8.** Operators Günter/DL2AWG, Hans/DL6JGN and Ron/PA3EWP will be active as KH8/homecall from Ofu Island (OC-077) between April 9-20th. Activity will be on 40-10 meters using CW, SSB and RTTY. QSL via their home callsigns.
- ⇒ **TONGA, A3.** Chris, GM3WOJ/ZL1CT (GM2V, ZK2V, VK9CZ), announced that he will be on a DXpedition to Tonga using the callsign A35V between April 4-18th. Activity will be on 160-10 meters using CW and SSB, with some RTTY. QSL via N3AL.
- ⇒ **C2, NAURU.** Operators Günter/DL2AWG, Hans/DL6JGN and San/K5YY who were expected to be active from Nauru between April 3-16th, have postponed their operation until possibly 2015. Günter states, "We cannot go to Nauru because we cannot get any accommodations on the island." Instead, Günter/DL2AWG and Hans/DL6JGN will go to KH8 (see KH8 above).





>> 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.

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

WANTED: St. Patty's Day parade ops. Ring Mike, WA3PYU on 412-481-1149. OPS NEEDED BADLY!



AA3CE	TOM
AA3EE	DAVE
AB3KD	JAY
AD3Q	BOB
AE3JM	JASON
AI3J	MARK
AK3J	STEVE
K3BAK	BRIAN
K3FS	FRANK
K3LAB	DOUG
K3RYA	BILL
K5BPC	BRIAN
KA3JKS	SUE
KA3LIW	DEAN
KA3MSE	LLOYD
KA3PXQ	CHRIS
KA3YNO	WALT
KB3CZX	TOM
KB3GMN	CAROL
KB3NUQ	ROBERT
KB3NZX	BOB
KB3OR0	JOYCE
KB3REE	KEN
KB3VCK	GREG
KB3VHT	JOHN
KB3YLR	DON
KB3YYE	RON
KB3ZKC	GABRIEL
KC3APT	JOHN
KF5ODL	JENNIFER
KJ3D	JIM
KØLIN	COLIN
KT3L	D0C
N3DQ	DELLA
N3DXE	BILL
N3EQP	JOHN
N3GHI	BRUCE
N3GHO	GLORIA
N3SAF	LEE
N3SBF	RICH
N3UUZ	CHUCK
N3VEF	BILLY
NB3C	GREG
NN3F	KEN
NU3S	AL
NU3Q	BOB
W3RKT	RICH
W3SVJ	NATE
W3WTW	TIM
WA3BKD	ART
WA3FWA	JOE
WA3PYU	MIKE
WA3RVD	MEL
WA3VXJ	KARL
WA3YCU	BOB
WA8NLX	RICK
WB3AGB	JOE
WB3CRC	DALE
WB3HDI	BOB
WB3JLK	RICH
WQ3T	DAVID

Club roster

Local events needing our support:

WASHFest 2014, 23 Feb., St. Patty's Day parade, 15 March, TRARC Hamfest, 27 April.

Local & Repeating Events/Club Roster





- ⇒ **WA3VXJ sez:** "On a recent Saturday night a few of us climbed Mt. SCARC for the ever-important Breezeshooters contest. Joe (WA3FWA), Nate (W3SVJ), and myself Karl (WA3VXJ) enjoyed a great evening of contesting, eating and conversation. Unfortunately the pizza did not have any anchovies!! The final score for the PSK portion of the contest was.....21 contacts at a grand total of 34 points. We should be in the running for category 'F' (club, multi-op) depending on how well W3PIE (Uniontown A.R.C.) did. Tnx to all who helped!"
- ⇒ **KB3GMN sez:** "There were 23 members and guests in attendance at the Holiday Social, on the 17th of January, at Tambellini's restaurant in Bridgeville. Everyone said they had a nice time and the food was good. We had 1 door prize, a Baofeng two-way radio. Gloria Child (N3GHO) won. I have to say she was a very happy person. Thanks to all who came out to the party!"
- ⇒ **AD3Q sez:** "Our new President Brian, K5BPC has asked me to be Chairman of the Education Committee this year. I would like to get some input into what members are interested in learning. I would also like to get someone who is proficient in the operation of the various radios to contact me. I need someone who knows the Icom 756 Pro III inside and out. I also need someone who knows the Kenwood TS-2000 inside and out. These individuals will need to prepare demonstrations how to use the radios. YouTube videos are permitted; the smart television at the clubhouse has the ability to play these. Please drop me an e-mail and let me know what you would like." Bob also goes on to say: "I want to encourage any topics for members who want to learn. I have already gotten a request to do an Extra Class group study."

AD3Q sez, Part Deux:

Here is the SCARC VE Exam schedule for 2014:

Exams given at the clubhouse at 7:00 pm.

<April 1, 2014>

<July 1, 2014>

<October 7, 2014>

ARRL Test site 2014 test fee: \$15.00

Walk-ins welcome

Coordinator: Bob McCloskey, AD3Q
(412) 650-8262

E Mail: <KA3WHX@gmail.com>

- ⇒ **AA3EE sez:** "If you missed the January meeting, the club has a new Technical Committee. The idea here is that they will be the last word in what gets done at the club. We're trying to avoid another debacle like the last antenna party where we hired a worker and he got 25 different instructions from 20 different people. The committee is Art WA3BKD, Tom AA3CE, and myself, Dave AA3EE.

Here are some of the things the new Technical Committee is considering for the new year:

- 1) (Should already be paid for) Finish existing projects. This is a must do. Put the W51 tower back up. Mount 6M beam. These two should be relatively easy.
 - 2) (\$\$\$) Repeater improvements. We need to decide if the repeater will be moved to the hut, which makes no sense unless we put a repeater-only tower next to the hut. In any case, we'll most likely need new coax. 7/8 Helix can be found on E-Bay for pennies on the dollar, and we have new connectors. There is a clock module for the repeater controller that costs about \$50.00 + S/H. It will keep the clock running if the power fails or the controller is unplugged for maintenance.
 - 3) (\$\$\$) New 440 repeater. A matching Kenwood TKR-850 will cost between \$800.00 - \$1000.00 from several 2 way vendors who resell them to hams. It's possible that a new one is about the same price.
 - 4) (Cheap) Improvements to the patch panel. We need to get ALL of the antenna ports on the radios into the patch panel. This will allow any VHF/UHF capable radio access to those antennas. It would do away with the HF vs. VHF room distinction, but that's been the case for the past 30 years anyways during multi-op contests.
 - 5) (Cheap) Clean/organize the attic. There's some stuff up there worth saving and it's getting covered with junk. We need a few heavy duty \$50.00 shelving units up there to protect what needs to be saved. The rest should be sold at a hamfest or junked, unless someone really wants that 80386 based PC.
 - 6) (Cheap) Revive the ATV repeater. Last time I checked, it all worked. Every once in a while, someone asks about it.
- On other topics: Whoever decided their couch was better than the existing one should remove the old ones from the porch. As far as I know, the gin pole is still missing."

(More 'Clubhouse QRN' on [page 12.](#))





The WASH group needs your help!

Apparently, there has been some instances of a local business "poaching" the 442.55MHz N3SH repeater frequency for their own use. You know: "Base 1 to mobile 1.", that sort of nonsense.....So, if you have the opportunity, give a listen to the frequency. If you hear anybody using it that shouldn't be there, please let Carol KB3GMN or me know via the reflector. I'll make sure that the WASH gang is made aware of it, so they can take appropriate action. Also, let them there 'poachers' politely know that they really shouldn't be there in the first place. Tnx fer ur help/73 de NB3C, on behalf of the WASH guys & gals.

From the estate sale of WA3BJS:

Contact Chuck, W3YNI, via e-mail if interested :
<w3yni1@gmail.com>

Vibroplex Bug circa 1950's.
Picture and S/N available. \$125.00

Rest of the stuff:

TR44 Rotor with control box: \$125.00
IC-2100 2m Mobile: \$100.00
Alinco DR-130 Transceiver: \$100.00
Large DC Power Supply. Looks homebrew.
Probably 50-75a judging by the weight. \$100.00
Heathkit Phone Patch: \$15.00
Heathkit frequency counter: \$15.00
Large lot of electronics components
(Caps, resistors, transistors, knobs): \$25.00

WANTED: St. Patty's Day parade ops. Ring Mike,
WA3PYU on 412-481-1149. OPS NEEDED BADLY!
This year's parade will be on 15 March.

⇒ Fran Kelly, KB3QCD, wife of Larry Keller, AB3ER, passed away on January 19th. Larry was previously the ARRL Western Pa. Section Emergency Coordinator. Larry, on behalf on the Steel City A.R.C., our deepest sympathies and condolences on the passing of your loved one. Fran was laid to rest on January 23rd.

QSL via.....

(Courtesy of & ©2014 OPDX/BARF80/KB8NW)

8S0DX via SM0DSG (B)
A52JR via PP5VB
A92AA via IZ8CLM
AX3CWB via VK3CWB
AX5SFA via VK5SFA
AX6WX via VK6WX
AX7GN via VK7GN & NA5AR
BW/VK2HSL via VK2HSL (d)
CM2CCA via EA7TV
C02RVA via EA5GL
CS2C via OK1RF
CW50 via CX2ABC
DA0CA via DC2YY
E51CDW via E51CDW
EA5URO via EA5H0X
EA8/PA0PMD via PA0PMD
EX9M via EX80
FT5ZM via N200
FW5JJ via F5RXL
HB40VC via HB9DKZ
HC1/AL4Q via DJ8QP

HG5A via HA5KDQ
HG7T via HA7TM
HG8DX via HA8FT
HI8/HB9EMR via HB9EMR
IQ5TT via IZ5DIY
J79JG via AD8J
J79VC via SP7VC
KC4AAA via K1IED (d)
LV6D via EA5KB
LX/ON5SE/P via ON5SE
LZ9W via LZ1PM
OD5ZZ via NI5DX (d)
OK2D via OK2KJT
OK5T via OK1VSL
OK6T via OK-Bureau
OK7K via OK1BN
OL500L via OK-Bureau
OM150JM via OM7AX
OM6A via OM3KHE
OM7M via OM3PA
OM90T via OM3MB

R2014C via R7AA
R2014H via R7AA
R2014P via R7AA
R25AFG via UA4AJD
S9TF via IK5CRH
SD2014ECC via SM2UVU
SH2014ECC via SM2GSR
SK7DX via SM7DXQ
SM0T via SM0DZB
SN7Q via SP7GIQ
SN90 via SP9KGC
TM200CF via F4DT0
TM50TT via F4SGU
UE70DV via RZ1AWA
VP2ETE via W3HNK
YP0C via Y03CZW
YR85PE via YR85PE
ZF2LC via W2SM
ZF2TA via K8AQM
ZW7REF via PR7ZAJ
R20140 via R7AA

(e) eQSL only (d) direct only (B) Bureau only (L) LoTW only

Local & miscellaneous QRL



⇒ The FCC has invited comments by February 18 on the latest batch of draft recommendations of its Advisory Committee for World Radiocommunication Conference 2015 (WRC-2015). At its January 27 meeting, the Advisory Committee (WAC) approved draft recommendations on a number of issues that will be considered by WRC-2015. Some items, including one which could possibly lead to changes to 60 meters in the long term, could affect the Amateur and Amateur-Satellite services. ARRL Chief Technology Officer Brennan Price, N4QX, is a member of the WAC, which is chartered to allow non-federal government entities to "provide to the [FCC] advice, technical support, and recommended proposals for the 2015 World Radiocommunication Conference."

"Based upon an initial review of the draft recommendations forwarded to the Commission, the International Bureau, in coordination with other Commission Bureaus and Offices, tentatively concludes that we can generally support most of the attached WRC-15 Advisory Committee draft recommendations," the Commission said in a January 28 Public Notice.

The FCC also seeks comment on draft proposals from the National Telecommunications & Information Administration (NTIA) as well as on the International Bureau's initial conclusions with regard to the WRC-15 Advisory Committee draft recommendations.



WRC-2012 Resolution 649 invited WRC-2015, to consider allocating "an appropriate amount of spectrum, not necessarily contiguous," to the Amateur Service on a secondary basis within the band 5250 to 5450 kHz. "In order to maintain effective and reliable communications capability throughout the sunspot cycle, allocations at regular intervals are desirable, in order to permit operation as close to the maximum usable frequency as possible," the WAC said in its draft recommendations. Incumbent services in the 5250 to 5450 kHz range include fixed, mobile, and radiolocation services.

"A secondary allocation from 5275 to 5450 kHz avoids the unsuitable segment allocated to the Radiolocation Service, reduces the interval between HF amateur allocations below 10 MHz to permit reliable operation throughout the sunspot cycle, and maximizes the flexibility of Amateur Service stations to effectively communicate within the secondary allocation and fulfills their obligations to avoid harmful interference to primary services," the WAC concluded.

WRC-2015 will also consider a number of issues that could impact amateur allocations above 420 MHz, including a possible extension of the current worldwide allocation to the Earth Exploration-Satellite service in the band 9300 to 9900 MHz by up to 600 MHz "within the frequency bands 8700 to 9300 MHz and/or 9900 to 10,500 MHz." Incumbent services in the 9900 to 10,500 MHz range include the Radiolocation, Fixed, Mobile, Amateur, and Amateur-Satellite services.

The Amateur Service is secondary at 10,000 to 10,500 MHz worldwide, and the Amateur-Satellite Service is secondary at 10,450 to 10,500 MHz worldwide.

The FCC said comments provided by interested parties will assist it in its consultations with the US Department of State and NTIA in the development of US positions for WRC-2015. "The recommendations...may evolve in the course of interagency discussions as we approach WRC-15 and, therefore, do not constitute a final US Government position on any issue," the FCC Public Notice stressed.

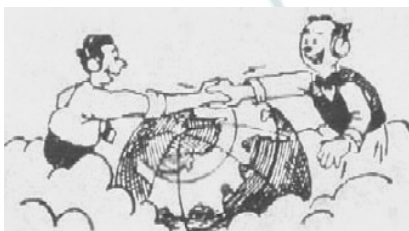
Comments should reference IB Docket 04-286 and specific recommendations by WAC document number. Interested parties may file comments via the FCC's Electronic Comment Filing System (ECFS) at <http://apps.fcc.gov/ecfs/> . The ARRL plans to file comments in this proceeding.

Our topic this month:

Bob, AD3Q has agreed to chair a newly-formed Education Committee at the club. Over the coming months, you'll see stuff coming on how to operate various pieces of equipment up on the hilltop. This month, Bob describes how to program the MFJ 434B Voice Keyer, that can be used during contests.

The voice keyer is currently configured for the Yaesu FT-847 at position #4. To change to a different rig such as the Kenwood TS140 or Icom IC-746 Pro, refer to the manual located above the current position of the unit. The power supply (wall wart) must be plugged in to provide the needed 12 VDC for the unit.

- ⇒ **1.** Connect either the hand mic or desk mic to the unit. It can accept either 8 pin plugs or modular plugs.
- ⇒ **2.** Initial button settings should be as follows:
 Power: off
 X-mit: off (out)
 Play: out
 Volume @ 10 O'clock position
 X10/X1: out
- ⇒ **3.** Press power on. The green 'Play' should light up.
- ⇒ **4.** Press 'REC/Play' to 'REC' (Red L.E.D. should light).
- ⇒ **5.** Choose audio source (I use the internal mic).
- ⇒ **6.** Choose your Message slot and press and hold the button in.
- ⇒ **7.** Begin message as soon as the message light flashes; continue holding button until done.
- ⇒ **8.** Example: "CQ Contest, CQ Contest this is Whiskey 3 Kilo Whiskey Hotel, W3KWH."
- ⇒ **9.** I suggest using Message 1 since it gives you 32 seconds.
- ⇒ **10.** Positions 2 through 5 are 10 seconds each.
- ⇒ **11.** To preview your message with the x-mit button still off, push the play button and the programmed message button.
- ⇒ **12.** Once you are satisfied with the messages recorded, press the x-mit button on. Now when you depress the appropriate message button it will go out over the air.
- ⇒ **13.** You can adjust the delay time between CQ's with the delay control.
- ⇒ **14.** If just as you start sending a message, someone comes back to you, you can stop by hitting the stop button.
- ⇒ **15.** Enjoy and save your voice.





As far as the club goes, 2014 is off to a busy start. Just look at all the goings-on over the last month or so there in the 'Clubhouse QRN' column. Let's keep the momentum going, please.....

Now that we're past the Breezeshooters PSK contest, next up is the Breezeshooters CW test. That'll be on the 15th of this month. I'm sure somebody will be up at the clubhouse having fun with it, so consider coming out and seeing what it's all about. If you've never operated CW or a contest, don't be shy. We've all been there before; the only way to learn is to jump in with both feet and do it. Nobody's gonna yell at you if you're not that good at it. We're all here to have a good time, and while we're sorta competitive, we're not at all like the big-gun DX contest stations. We don't take ourselves too seriously. We socialize, eat pizza, have a few laughs and hand out contacts to a few lucky stations. **FUN** is the key word here.....

As we make our way to spring, we're slowly makin' our way towards hamfest season too. February 23rd is WASHFest, and coming up April 27 is the Two Rivers A.R.C. hamfest. Hang in there; spring is just around the corner! However, for the time being, these are nice escapes from cabin fever, if only for a few hours.....Come on out and support these 2 fine groups.

For the first time in a long time, somebody has received the club's \$1000.00 scholarship grant. Her name is Kyleigh, and her call is KB3RXK. She's a nursing student at CCAC. Congrats on the award Kyleigh, and the best of luck in your studies.

I understand Mike, WA3PYU is lookin' for a few good men and women to help in the upcoming St. Patrick's Day parade. If you can help out, see the contact info on [page 7](#). Ooh.....keep in mind the Pittsburgh Marathon, coming up in May, too.

The only nice thing about winter is the contests that keep us busy while we are stuck inside. 2 biggies this month: The CQ 160M SSB Contest, and the ARRL International DX CW Contest. Whether you work 'em from home, or from the club, WORK 'EM. A good way to improve your operating skills, and have fun at the same time. Next month, there's more big DX contests too: ARRL Int'l DX SSB, and one of the biggest (and my favorite), the CQ WPX SSB contest. What I said earlier still goes. We won't yell at you if you're not an experienced contester.....

That's it for this month's dose of boring bull\$ % &. Stay warm, work DX, and THINK SPRING. CU at the hamfests. 73 de NB3C. Thanks for reading.

⇒ **WA3VXJ sez, part deux:** Hello fellow Lodge members. The remote station has been working pretty good so far. The club has been on the air everyday working DX and many stateside contacts. We are waiting for a new interface so we can operate PUSH TO TALK instead of VOX. If anyone needs to use the HY-TOWER vertical when at the club please do so. If you could connect it back up before you leave that would save a trip up the hill until we can put up a multiband dipole. Tnx de Karl, WA3VXJ.

⇒ **NB3C sez:** I kinda like this "Clubhouse QRN" concept. It just sorta fell together on it's own this month. I welcome comments that I can put here concerning club activities, whatever they may be. So please consider sending stuff like this to me so I can run it in the newsletter; I'll fit it in and make it work. I'd like to be able to run it every month, if I can. Tnx in advance to all de NB3C.

**BREEZESHOOTERS GROUNDWAVE
CW TEST: 15 FEBRUARY**

**BREEZESHOOTERS GROUNDWAVE
SSB TEST: 15 MARCH**



Do you like to chase DX? Then take a look at this here web page:

< <http://www.dxheat.com/> >

DXHeat offers versatile filtering of incoming real-time Web DX-Cluster DX spots. With its built in push algorithms, it displays DX spots in an instant while being optimized for low bandwidth at the same time. Rich graphical tools and HTML5 Audio & WebSDR Technology make it indispensable for serious DXers. It also has over 25 million DX spots listed/searchable in its database. DXHeat also provides a visual tool to check the current band activity into all continents at a glance and a WebSDR to listen to any spot listed on your browser. (No additional software or plugins needed.) (TNX to the OPDX/BARF80/KB8NW Group for this.)



February 2014 - March 2014

The S.C.A.R.C. Bi-Monthly Contest/Event Planner

February 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	

April 2014						
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13	14	15	16	17	18	19
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27	28	29	30			

June 2014						
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15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

August 2014						
S	M	T	W	T	F	S
						1
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9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

October 2014						
S	M	T	W	T	F	S
			1	2	3	4
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12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

December 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	31		

February 2014			March 2014		
1	Sat	Vermont QSO Party	1	Sat	ARRL Int'l DX SSB
1	Sat	10-10 Int. Winter Contest SSB	2	Sun	ARRL Int'l DX SSB
1	Sat	Minnesota QSO Party	2	Sun	DARC 10-Meter Digital Contest
1	Sat	British Columbia QSO Party	2	Sun	SARL Hamnet 40m Simulated Emer Test
1	Sat	Delaware QSO Party	4	Tue	AGCW YL-CW Party
1	Sat	Mexico RTTY Intl Contest	5	Wed	SCARC Social Night
2	Sun	10-10 Int. Winter Contest SSB	8	Sat	AGCW QRP Contest
2	Sun	British Columbia QSO Party	8	Sat	EA PSK63 Contest
2	Sun	Delaware QSO Party	8	Sat	Idaho QSO Party
2	Sun	Mexico RTTY Intl Contest	9	Sun	EA PSK63 Contest
2	Sun	North American Sprint CW	9	Sun	Idaho QSO Party
5	Wed	SCARC Social Night	9	Sun	North American Sprint RTTY
7	Fri	NCCC Sprint Ladder	9	Sun	Wisconsin QSO Party
8	Sat	CQ WW RTTY WPX Contest	10	Mon	Wisconsin QSO Party
8	Sat	FISTS Winter Sprint	12	Wed	SCARC Social Night
8	Sat	New Hampshire QSO Party	15	Sat	Breezeshooters Groundwave SSB
8	Sat	Dutch PACC Contest	15	Sat	BARTG HF RTTY Contest
8	Sat	Asia-Pacific Spring Sprint CW	15	Sat	Russian DX Contest
9	Sun	New Hampshire QSO Party	15	Sat	Virginia QSO Party
9	Sun	Dutch PACC Contest	16	Sun	BARTG HF RTTY Contest
9	Sun	CQ WW RTTY WPX Contest	16	Sun	Russian DX Contest
12	Wed	SCARC Social Night	16	Sun	Virginia QSO Party
12	Wed	NAQCC Straight Key/Bug Sprint	16	Sun	North American Sprint SSB
14	Fri	NCCC Sprint Ladder	17	Mon	BARTG HF RTTY Contest
15	Sat	ARRL Intl DX Contest CW	18	Tue	SCARC Business Meeting
15	Sat	Breezeshooters CW Groundwave	20	Thu	NAQCC Straight Key/Bug Sprint
16	Sun	ARRL Intl DX Contest CW	22	Sat	FOC QSO Party
18	Tue	SCARC Business Meeting	22	Sat	Oklahoma QSO Party
19	Wed	AGCW Semi-Automatic Key Evening	22	Sat	Louisiana QSO Party
21	Fri	CQ 160-Meter Contest SSB	23	Sun	Oklahoma QSO Party
22	Sat	CQ 160-Meter Contest SSB	23	Sun	Louisiana QSO Party
22	Sat	North American QSO Party RTTY	26	Wed	SCARC Social Night
22	Sat	UBA DX Contest CW	29	Sat	CQ WPX Contest SSB
22	Sat	REF Contest SSB	30	Sun	CQ WPX Contest SSB
23	Sun	CQ 160-Meter Contest SSB			
23	Sun	WASHFEST 2014			
23	Sun	North Carolina QSO Party			
23	Sun	High Speed Club CW Contest			
23	Sun	North American QSO Party RTTY			
23	Sun	UBA DX Contest CW			
23	Sun	REF Contest SSB			
24	Mon	North Carolina QSO Party			
26	Wed	SCARC Social Night			

March 2014						
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23	24	25	26	27	28	29
30	31					

May 2014						
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18	19	20	21	22	23	24
25	26	27	28	29	30	31

July 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	31		

September 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			

November 2014						
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16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

January 2015						
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

Complete contest list:

<www.hornucopia.com/contestcal/contestcal.html>



WASHfest 2014

The South Hills Hamfest — Now in our **NINETEENTH** big year!

Sponsored by the WIRELESS ASSOCIATION OF SOUTH HILLS AMATEUR RADIO CLUB, INC.

Sunday, February 23rd, 2014

8:00 AM until 3:00 PM Rain or Shine (or Snow!)

Castle Shannon VFD Memorial Hall

3600 Library Road (State Route 88), Castle Shannon, PA

Talk-In on 146.955(-) and 443.650(+) 131.8 PL



(800) 545-8881

DXCC Card Checking Available!

Thanks Art Lund NQ3A

Breakfast & Lunch provided
by **JACK'S CATERING**
of Peters Township

*FREE Coffee for the entire Hamfest
courtesy of HAM RADIO INSURANCE ASSOCIATES
of Canonsburg, PA*

MAIN PRIZES — You've Got to Play to WIN!



1st Prize: Yaesu FTDX-1200 HF+6M

2nd Prize: Comet CMX 2300
HF/VHF SWR/Power Meter

3rd Prize: Clear Speech Speaker



Additional Hourly Door Prizes! Special Black Box Prize (Separate Drawing)!

Main Prize tickets are \$2.00 each, 3 for \$5.00, 7 for \$10, 15 for \$20

All Prizes Subject to last-minute changes

For Table Reservations, or More Information, Please Contact:

Carol Danko KB3GMN at (412) 884-1466 n3sbf@comcast.net

E-mail us directly at washarc@yahoo.com Check out our website too! www.n3sh.org

Please Note: Early Table Reservations must be paid in full on or before January 31st, 2014.

Reservations received after February 1st, 2014 must include payment in full.

Reserve now... we have sold out in advance four years running!

Hamfest Table Reservation Form—Please PRINT LEGIBLY ALL INFORMATION

Name: _____ Email: _____

Address: _____ Phone: () _____ - _____

City: _____ State: _____ Zip: _____

Call Sign: _____

Tables WITH Electricity: _____ X \$15.00 = _____

Tables WITHOUT Electricity: _____ X \$10.00 = _____

Please make all checks payable to:
WIRELESS ASSOCIATION OF SOUTH HILLS
PLEASE MAIL RESERVATION TO:
WASHFEST 2014
c/o CAROL DANKO KB3GMN
4246 Seton Drive
Pittsburgh, PA 15227-1244

We reserve the right to resell any tables not occupied by 8 AM, unless prior arrangements have been made!



42nd ANNUAL HAMFEST

Sunday April 27, 2014 8 am – 2 pm

Our 11th Year at: The Spectrum – 6001 Smithfield St. – Boston, PA 15135

GPS Coordinates: 40.3175128, -79.8146132

(Location: Pittsburgh/McKeesport, PA Southern Suburbs)

Talk In: 146.73 MHz Repeater – Mobile Check in: 146.52 MHz

8 ft. Vendor Tables

(Children under 12 free when accompanied by an adult)

Amateur Exam Testing Available – 48 Hour Pre-Registration Required.

Email: "veteam@trarc.net"

Sponsored by The Two Rivers Amateur Radio Club, Inc.

P.O. Box 225 – Greenock, Pa 15047-0225

Table Reservations: "412 203 2015" – Email: "wi3r@comcast.net"



Hot Breakfast – Hot Lunch – Free Coffee



SCARC DUES RENEWAL FORM FOR THE CALENDAR YEAR - 2014

NAME: _____ CALL: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

PHONE # DAY: _____ EVENING: _____

D. O. B. _____ LICENSE CLASS: _____ EXPIRES: _____

mm/dd T, G, A, or E

E-MAIL: _____

< To be used for S.C.A.R.C. business ONLY >

A MONTHLY NEWSLETTER WILL BE SENT TO THE E-MAIL ADDRESS ABOVE.

Any CLUB information deemed important will be sent by e-mail or by phone.

Please indicate if you are a member of ARRL: YES _____ NO _____

ARRL information is requested to keep our ARRL affiliation Current.

Per SCARC Constitution article VII, sec & by-laws, annual dues must be paid by the business meeting in April.

ANNUAL MEMBERSHIP DUES RATES:

2014 Early payment discount of 20% will apply to Regular Membership Dues.

The discounted rate of \$40.00 will be honored if paid by the January-2014 business meeting. If your payment is mailed; the postmark needs to be NO later than 01.21.14.

Regular Member: \$50.00

DX Member: \$15.00

Family member

(same household/address) \$15.00

Make your check payable to: STEEL CITY AMATEUR RADIO CLUB. Please note your call sign on your check. Your check is your receipt. Payment can be mailed to; S.C.A.R.C. P. O. Box 281

Carnegie, PA 15106 or the Treasurer; Walt Adkins - KA3YNO, 476 First Street, Heidelberg, PA 15106

Payments will be accepted on Wednesday social evenings & the Tuesday monthly business meetings. Your early renewal assures your continued access to the clubhouse and better planning for activities.

Steel City Amateur Radio Club, Inc. Membership Application

Date: _____

Name: _____ Call: _____

Street: _____

City: _____ Co.: _____ State: _____ Zip: _____

Home Phone: _____ Business: _____ E-Mail: _____

Birthday: _____ License Class: _____ Expiration Date: _____

Are you a member of ARRL? YES ____ NO ____ Membership Number: _____

What modes and bands interest you?

Are you interested in working contests? YES ____ NO ____

Which ones? _____

Are you willing to participate in work parties for maintenance and upkeep of the club, facilities?

YES ____ NO ____ If no, explain: _____

The Steel City Amateur Radio Club, Inc. is open to an who are interested in Amateur Radio. We are looking for good, active, responsible members. You will be expected to abide by the constitution and by laws of the club, and uphold the Amateur Radio Operator's Code. You are encouraged to attend our business meetings held on the third Tuesday of the month at 8:00 p.m, and our social night every Wednesday with the exception of the Wednesday following the monthly business meeting.

Your application will be held for six months. During this time you will be required to attend at least three business meetings. This application will be reviewed at the required three meetings. A vote for membership will be held at the third meeting. If these requirements are not met, your application will be dropped. You may reapply.

I agree to the above (Applicants Signature): _____ Date: _____

Sponsor's Signature: _____ Date: _____

FOR MEMBERSHIP COMMITTEE PURPOSES ONLY:

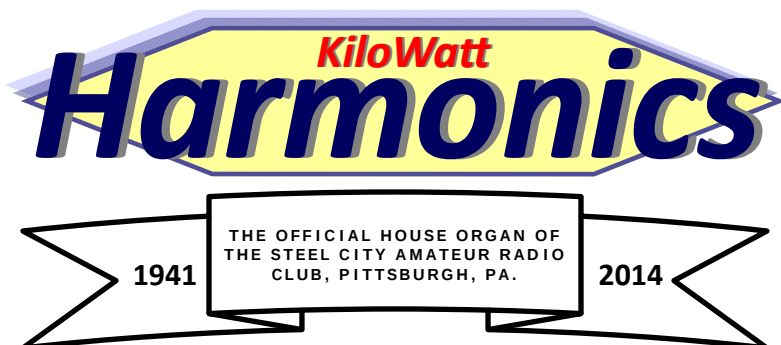
Date Application received: _____ First Reading: _____ Second: _____ Third: _____

Date of Membership Vote: _____ Application Rejected: _____

Membership Committee Approval: _____

Steel City Amateur Radio Club
P.O. Box 281
Carnegie, Pennsylvania 15106

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NEXT
MEETING:
18 FEBRUARY,
8:00PM

