



QRZ NEWS

A MONTHLY PUBLICATION OF
SOUTHERN PENNSYLVANIA AMATEUR RADIO CLUB, INC
PO BOX 422- Mount Joy, PA 17552
(Founded June 1960)

AN AFFILIATED SPECIAL SERVICE CLUB OF THE ARRL, INC.

"Public Service through Communication"

Website: WWW. K3IR.org

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Repeaters: 145.230 - 449.975 - Packet 145.030 - ATV 923.250, FN10se
Club site 1715 Breneman Road, Rapho Twp. (Manheim P.O. 17545 NO DELIVERY)

August 2016

Your gonna do what with a microsat?

So I read this article the other day. I have included the link at the end. In the article it discussed the idea being tested the by the US Air Force in detonating plasma bombs in the ionosphere. The article discussed radio propagation benefits for improved battlefield communication.

Though he idea is a bit impractical the effects it would yield are something well known to us radio citizens. Charging the atmosphere is what the sun does for us at varying levels over the 11 year solar cycle. *I want my money back for this cycle!*

The idea of charging the ionosphere is nothing new. After all HAARP was built in Alaska to do the same And HAARP is back baby. Now under the control of the University of Alaska, HAARP is ready to put its 3.6 megawatts of ion heating power back into the atmosphere.

Does HAARP help our long distance communication? Would metal bombs delivered to the ionosphere by micro satellites? There is one way to measure and that is the Reverse Beacon Network.

In 2013, when HAARP was shutdown, the digital protocols, pervasiveness of small QRP beacons, and internet connected SDR receivers was no where close to the levels they are today.

Fast forward 3 years and protocols like WSPR and JT65 have the ability to transmit regularly and through poor conditions with good forward error correction. Raspberry Pi, SDR dongles, and devices like the SDR Play are constantly listening.

Couple this with backend websites that collect the reception of all these beacons and you have a full fledged data gathering network that is available for researchers at HAARP or the US Air Force to test their cloud warmers.

Science is a cornerstone to amateur radio. It allows the curious to explore and invent in the space of radio and technology. Nowhere is this better represented then www.HamSci.org.

This website promotes the intersection of amateur radio with scientific projects and endeavors. I encourage everyone to spend some time looking at the projects and people involved.

Particularly interesting is the upcoming Solar eclipse QSO party in 2017. This is a perfect example of atmospheric research and amateur radio joining forces to advance humankinds understanding of the world around us.

We have one year to prepare for this event happening Monday Aug 21, 2017. The idea is to use a massively intertwined event to see what happens as the moon traverses in front of

the sun. We must do our part to give the scientists as much data as possible.

Science is alive in amateur radio and we are entering a whole new phase of data collection networks.

Your President

Kevin Lampo
K3LLC

New Scientist Article

<https://www.newscientist.com/article/2100382-us-air-force-wants-to-plasma-bomb-the-sky-using-tiny-satellites/>

Monthly Projects List

Sparc will hold monthly work days through the spring and summer at the site. We meet on the second Saturday around 9:30 AM. This is the same day as our monthly breakfast at Gus' Restaurant in Mt Joy.

Here are the scheduled tasks for the next three months. We have many tasks to complete this year and need all the hands to accomplish the list.

Sept 10th

- Raise up Gin pole and Lower 2M 4 bay antenna
- Hang new Heliac to top of tower
- Replace Repeater building AC unit

Oct 8

- Rehang the 2M antenna
 - Antenna to have new harness installed
 - Bond antenna to Tower
 - Connect to new Heliac

Nov 12

- Prep for winter
 - Move everything inside
 - Check antenna connections where possible
 - Complete all tower work

Coming Events

Tuesday 26 July 2016 7:00PM

Regular SPARC membership meeting at the SPARC club site 1715 Breneman Rd., Rapho Twp. (Manheim P.O. 17545 for GPS).

The topic for the August meeting will be a celebration and dedication of the new building.

A short business meeting will follow.

Monthly Breakfast

The second Saturday of every month at 0800 is a SPARC breakfast at Gus's Keystone Restaurant, 1050 W. Main St, Mt Joy, PA. Contact [Gerry Wagner, KB3SSZ](#), for more details. Everyone interested in Amateur Radio is invited to attend. See <http://guskeystone.com/> for restaurant details.

Other Events

A conjunction between will occur between Venus and Jupiter just after sunset on the evening of August 27. These two planets will be less than 1/15th of a degree apart. These two planets will not appear together so closely again until November 2065.

Editor's Notes

I will be taking over from George Gadbois as newsletter editor. I will strive to keep up the

regular on-time cadence that George kept and would like to keep the newsletter interesting and useful. Please help me by forwarding any articles or news items of interest so I can get them in the newsletter. Over the past 8 years we have had a very high quality newsletter with worldwide distribution. As George had commented last month, "Without your contributions, it would not have been a success."

Dave Sarraf, N3NDJ

ARES/RACES



As part of the SPARC commitment to emergency communications, the SPARC repeater system is maintained as available for linking with other area repeaters.

Lancaster County RACES VHF Net is held on the first Tuesday of the month at 2030 hours local time on the 145.310 MHz repeater in Rawlinsville.

The Lancaster County primary ARES/RACES repeater is on 145.310 MHz with minus offset and 118.8 PL.

Pennsylvania RACES HF Nets are held at 3993.5 kHz LSB on all Sundays except holidays.

The statewide net is on the first Sunday of the month at 0800 hours local time.

The Central Area (including Lancaster County) net is at 08:30 local time.

EPA NBEMS Net, Tuesday, 7:30pm local EST,
3.5920mhz Mode: Olivia 8/500 1khz,
Net Mgr: WA3WSJ@arrl.net

SPARC Nets

[SPARC holds nets every Tuesday at 2100](#)

local time on 145.230 MHz minus offset and PL of 118.8Hz. The **[449.975MHz](#)** PL of 114.8 Hz repeater is linked to the 2m repeater for the net.

Club Officers

President - Kevin Lampo – [K3LLC](#)
Vice President - Scott Lithgow – [KN3A](#)
Secretary - Peg Hamm – [KB3SCA](#)
Treasurer - David St. Pierre - [AB3VJ](#)
Repeater Trustee - Dave Payne - [N3LOM](#)

Membership Info Update Request

Please send all changes of address, email, and ham status to me for the MDB to Gerry Wagner at 1309 Willow Creek Drive, Mount Joy, PA 17552 or Gerry.Wagner@ComCast.Net, Cell=717-344-1427,

Home Phone=717-653-0659 (Fax Opt); Skype
Thanks Gerry Wagner KB3SSZ

Nearby Nets of Local Interest

If you need information on access tones etc, the referenced web sites below will usually provide the information needed. For more information, see <http://arcc-inc.org/arc-fdbas.html>

**Monday Ephrata Area Repeater Society
Lancaster County Two Meter Emergency
Net** 9:00 PM on the 145.450MHz repeater.

(Ed Note: The EARS web site no longer exists. The Monday night net is still in operation .)

Monday [Keystone VHF Club](#) Combined Club & ARES/RACES Net 8:30PM on 146.970MHz.

Monday South Mountain Radio Amateurs

SMRA Club Net 9:00PM on [145.430MHz](#)

YORK NETS - Summer TUESDAY

DIGITAL NET is on Summer Hiatus
Feel free to use this time for informal practice amongst yourselves
8:00 PM on 146.97 MHz repeater , PL 123.0 HZ

ELMER NET will continue

at 9 PM on the 146.97 MHz repeater, PL 123.0 HZ

this NET is for newer HAMS and anyone else who may have questions, or wish to discuss projects.

Morse Code Net Tuesday, 2000 local time (8:00p). [SMRA](#) repeater 145.430- (67.0 Hz) with alternate frequency of 146.460+ (1,000 kHz offset, tone 67.0 Hz)

Wednesday York County SSB Net 7:45PM on 50.135MHz. Informal net getting started. Contact Steve Cruse, K3WHC, for more information.

Wednesday [Pottstown Area Amateur Radio Club](#) 8:30PM 50.130MHz Contact [Leonard, WV3P](#) for more information.

Wednesday [Red Rose Repeater Association Net](#) 9:00PM on 147.015MHz.

Wednesday [QCWA Net](#) 9:00PM on 146.97MHz.

Thursday [Lancaster Radio Transmitting Society Net](#) 9:00 PM on 145.390MHz

PACKRAT VHF/UHF NETS

Visit the Mt Airy VHF Radio Club at: <http://packratvhf.com/airtimes.htm> for the latest information on VHF/UHF nets.

NTS Eastern Area Phone net

3.917 at 4:00 PM daily for traffic going to EPA, MDC, WPA and Maryland. We have a callup, pass any traffic, after that a round of comments. Traffic manager is WA3QPX. Net could use more checkins from EPA as we normally only get one checkin from EPA and sometimes none. This is where the Fone traffic for EPA net normally comes from. Any questions I will be on 3.917 at 4:00 PM.
73 , [Paul, WA3QPX](#)



Two EPA Nets Now Accessible via Echolink
Posted By: [egroups_n3sw](#) [egroups_n3sw](#)
Mon Aug 27, 2012 11:40 pm
<>The EPA AA3RG and Echolink Traffic Net (EAETN) has been accessible since its inception via Echolink at node AA3RG-R (#149493). See the group Calendar for more information. [Thursday 8:00PM]

<>Now the Capital Area Traffic Net (CATN) is also accessible via Echolink at node N3TWT-R (#743026). See the group Calendar for more information. All (*licensed hams*) are welcome to join in on these nets.
73 -Scott N3SW EPA STM-

AA3C note: To visit our group on the web, go to NTS-EPA Group web site:
<http://groups.yahoo.com/group/nts-epa/>
Both nets will utilize the 146.640(tx-) MHz.
Transmit access tone: 82.5 Hz.
AA3RG Repeater. <http://www.aa3rg.org/>

QRZ News Publication

QRZ News is published monthly. The deadline for submission of items for publication is 11 days before the regular membership meeting on the fourth Tuesday of each month. If the material is not copy and paste ready for publication, more lead time is required.

We operate on an exchange basis with other not for profit publications. Articles printed in QRZ News may be reprinted in a not for profit publication provided proper credit is given. QRZ News is archived at <http://www.k3ir.org/>

~~For Sale By SPARC~~

SPARC has the following items for sale to members or other interested Hams.

12 sections of used Rohn 25 tower - 10 foot sections - will need to be sanded and painted

2 top sections - tapered at top.

Most of the tower sections have surface rust but are solid. The top sections have had some of the cross bracing cut to accommodate rotor installation.

Looking for \$20 per section. Delivery can be arranged.

Also if you are building wire antennas we have a large quantity of insulated wire from 14 gauge to 18 gauge.

Contact Kevin, K3LLC or Harry, N3FMO
