



CHEESE BITS

W3CCX
CLUB MEMORIAL CALL

ARRL
Affiliated
Club



Volume LV

June

Number 6

PREZ SEZ:

Amidst all the prep work for the June contest I write this month's treatise. Dayton was a great time and I understand that many more are planning to get out to Dayton next year;

lets make it a real fun event for many in the club. It's always so nice to see all of the distant contacts that we make in person. Then it's also fun to see all of the new technology and toys brewing for our radio pleasure. WB2RVX and I make the trip together and I enjoyed another "Contest University". **Come to the meeting this month for a summary of Dayton and wrap up of the Contest.**

June is upon us and it means that our premier event will take place once again in Big Pocono State Park where we set up 11 bands and take on the ARRL June VHF Contest from one of the best spots in the east of Pennsylvania. It all starts early Friday morning when we start loading up the 26 foot truck with all of the tower and antenna gear. We have large power service cable that we use for near flawless electrical service. What a dream! Then we set up five towers with all of the antennas. This year we are combining 222 and up in one truck for increased collaboration amongst those operators, and to hopefully make life a little easier for the Rovers. Speaking of Rovers, our rovers are ready for the event as well. Again this year no one is going to the southern route (FM15-FM27) and with the Galactic Jitney being taken apart, it doesn't look good for that again any time in the near future. Maybe some day a new southern Rover will

appear :-). I still can't match the score I achieved when Bill Seabreeze W3IY (sk) did the southern route and handed out so many nice grids and contacts. **Come and join us in the fun;** I'll bet six meters goes wild and all of our other bands perform in great fashion.

The June meeting will start with dinner at Giuseppe's (6PM) and then the meeting at the normal time at the normal location; Ben Wilson Senior Center in Warminster, PA. After a meeting and elections we'll start debriefing on Dayton and the Contest.

June also has **ARRL Field Day** just two weeks after the **June VHF Contest**; so for those of you who just didn't get enough radio, find a local Field Day and get out and make some noise. It's also a great social event.

July has several major events, the first of which is the World RadioSport Team Championship where some sixty teams from all over the world come to a single location (60 miles wide) and compete with identical equipment. See <http://www.wrtc2014.org/> for more information. This event coincides with the ARRL 100th anniversary being held as the Centennial in Hartford, CT from July 17th through the 19th. **Plan to come and see what the last one hundred years have accomplished and be a part of taking amateur radio into the next century.** As if that isn't enough activity for one month, we also have the Central States VHF Conference at the end of the month.

Pack Rats **CHEESE BITS** is a monthly publication of the **Mt. AIRY VHF RADIO CLUB, INC.** -Abington, PA.

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Pack Rat Web Site: <http://www.packratvhf.com>

SUBSCRIPTION/ADVERTISING MANAGER:

Bob Fischer, W2SJ 23 Morning Glory Circle, Mullica Hill, NJ 08062 (609) 440-2916 bobw2sj@gmail.com

EDITOR:

Lenny Wintfeld W2BVH 709 Lincoln Av., Cranford NJ 07016 (908)-272-0559 lennyw@comcast.net

CLUB TREASURER:

Dave Mascaro, W3KM 1603 Mink Road Ottsville, PA 18942 (215)-795-2648 w3km@verizon.net

TRUSTEE OF CLUB CALL - W3CCX

Brian Taylor N3EXA (215)-257-6303 n3exa@verizon.net

PACKRAT 222 MHz REPEATER - W3CCX/R

222.98/224.58 MHz (PL 136.5) Hilltown, PA

OFFICERS 2013-2014

PRESIDENT K3TUF, Phil Theis phil@k3tuf.com
VICE PRES: WA3GFZ Paul Sokoloff dogfaces@comcast.net
CORR. SEC: WA3EHD Jim Antonacci jjantonacci@verizon.net
SEC: KA3WXV George Altemus ka3wxv@yahoo.com
TREAS: W3KM Dave Mascaro w3km@verizon.net
DIRECTORS:
N3NGE Len Martin n3nge@dejazzd.com
WB2RVX Mike Gullo mgullo3@comcast.net
KB1JEY Michael Davis Michael.Davis@alumni.duke.edu
K1DS Rick Rosen rick1ds@hotmail.com
PAST PRESIDENT: W3GAD Doc Whitticar w3gad@arrl.net

COMMITTEE CHAIRMEN

January Contest K3EGE billk3ege@gmail.com
June Contest: N3ITT & K3TUF
HAMARAMA: WA3DRC & KA3WXV
VHF Conference: Rick K1DS rick1ds@hotmail.com
CoChairs
George ka3wxv@yahoo.com
Michael
michael@bassettconsulting.com

Awards Chairman KB3GJT
Quartermaster: K3IUV bsoltoff@comcast.net

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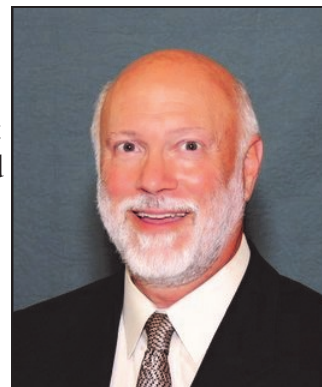
FM29jw Philadelphia, PA
50.080 144.284 222.064 432.286 903.072 1296.245 MHz
2304.043 3456.207 5763.196 10,368.062 MHz (as of 1/08)

MONDAY NIGHT NETS

<u>TIME</u>	<u>FREQUENCY</u>	<u>NET CONTROL</u>
7:30 PM	50.145 MHz	K3EOD FM29II WA3QPX FM29di
8:00 PM	144.150 MHz	N3ITT FN20kl
8:30 PM	222.125 MHz	KB1JEY FN20je
8:30 PM	224.58R MHz	W3GXB FN20jm
9:00 PM	432.110 MHz	WB2RVX FM29mt
9:30 PM	1296.100 MHz	K3TUF FN10we
10:00 PM	903.100 MHz	WA3SRU FN20le

Visit the Mt Airy VHF Radio Club at: www.packratvhf.com or www.w3ccx.com

In August we finally come to my favorite event, the ARRL UHF Contest. A twenty four hour event that uses bands from 222 MHz and above.



For your planning purposes, make sure to mark you calendar for the Mid Atlantic VHF Conference.

Please go to our website now; all of the details are at: <http://packratvhf.com/Conference/vhf%20conf%202014.html>, we're ready for your registration and payment now.

So, lets have a great summer and work on lots of bands,

Phil K3TUF

Thanks, Phil for squeezing in this months Prez Sez in the midst of preparing 5 bands, and two meals in one day.

W2BVH Editor

MAY MEETING PICTURES



Mario, our featured speaker did a presentation on inexpensive (<\$25) wide band SDR receiver dongles that fit your computer's USB port

Here, Mario helps KB1JEY get his newly purchased dongle going. A bit of care is needed configuring the driver and interface software.



...May cont'd



Al gets a belated homebrewer award plaque for his prototype of a tower mounted antenna hoist



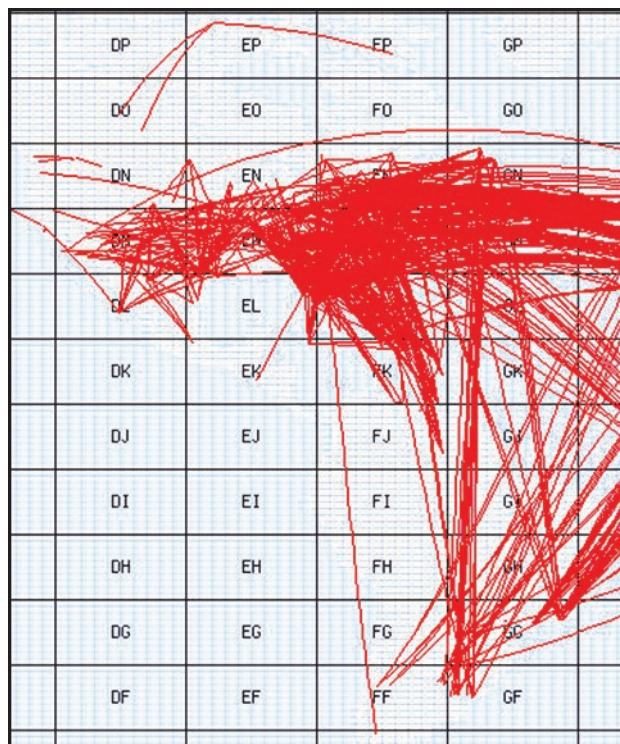
Here's a 10 element PVC pipe and 12 Ga. wire yagi that works well with the SDR dongle.

SIX METER DX REPORT

18 May 2014 By Chris Patterson, W3CMP

Things were relatively quiet here until May 10th 2014. Before that there was a little bit of stateside single hop Es, but nothing exciting. There have been occasional reports from the West Coast of propagation to the Pacific, and on May 9th (evening of the 8th here) the first SSSP contacts of 2014 with Japan were made by stations in California. That is very early in the season; I can't recall an earlier date. On the 4th of May, Z35EJ (ZF1EJ) came through here on some single hop E from Grand Cayman.

Yesterday, as shown by the attached screenshot from ON4KST, there was very strong propagation from the US to the Caribbean, Africa, and extreme western Europe. There was also propagation from South America to VO1. The show just before 19:00UTC (3:00pm) when Bruce ZD7VC on St. Helena was heard by Lefty K1TOL. Bruce worked a few US stations including KB3RHR in western Pennsylvania. Nicolas, TJ3SN in Cameroon was in here for an hour plus beginning about 20:30UTC. Dave NZ3M in Elizabethtown, and Rick AK3E near Rising Sun MD and Sam WT3Q worked him. Sam and Dave both later told me he was pretty strong at times. As usual I missed another two new ones because I was doing other things.



When I came down to the shack at about 21:40UTC, the band was wide open to the Azores and Canary Islands. TJ3SN was still in, but not well enough to call. Stations were up as high as 50.200MHz. I worked several EA8 and CU3 stations on SSB. All were strong. About 22:00UTC the band also opened to the Caribbean. CO8DM, HI3TEJ, FG4NN, FM5AN, and FG8OJ were in on SSB with nice signals. I also heard Ed VP9GE from Bermuda. Randy WA3HLP and Phil K3TUF were a couple of other locals who worked a number of stations in the openings. Stations in the Southeastern US did apparently make contacts with mainland Portugal.

About 22:45UTC, just before the 23:00UTC (7:00pm) **start time for the Six Meter Sprint, the band slammed shut**. All propagation just stopped. However, at 23:12UTC I heard a very weak EA8TX calling CQ on CW and worked him. So it seems like the Summer E season may be off to an auspicious start.

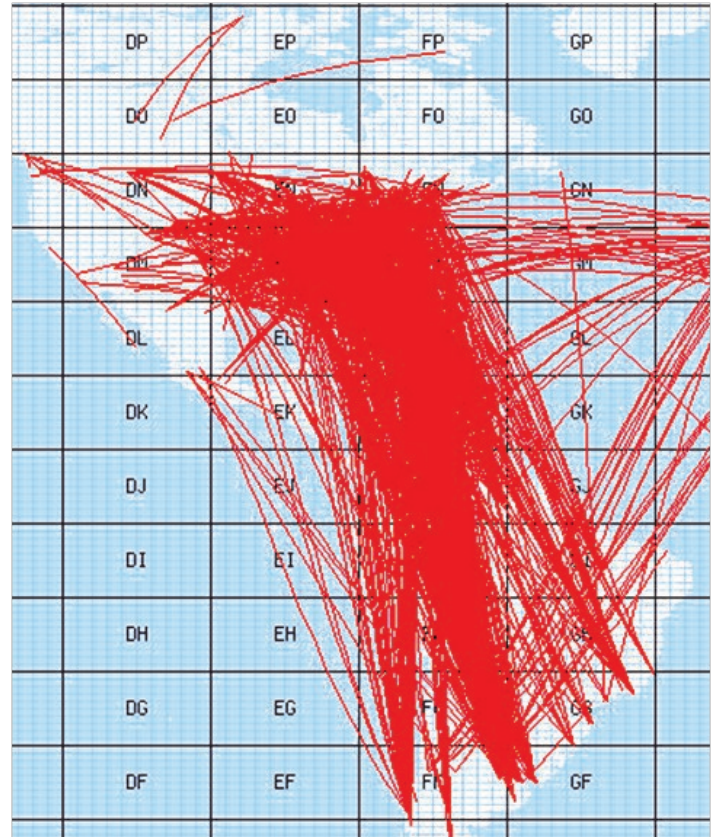
For the second day in a row 6 meters was hopping on the 11th. The band opened again; this time to South America. Stations in this area worked Brazil, Uruguay, Argentina, and Chile. Again, I missed most of it because I was working outside. It was most likely an Es link to TEP/F2 propagation. I did get into the shack about 23:10 UTC and worked Chris 9Y4D, PV8ADI, XE1MM,

XE2JS, and NP3CW. There were some other Caribbean stations on but I passed them by. 50.110MHz the DX calling frequency, should be called 50.KP4. For most of the evening the Puerto Rican hams were holding a round table among themselves, oblivious to the open band. At least 50.KP4 is a good indicator of an opening to the Caribbean and perhaps South America..... One thing I did notice was a number of stations calling CQ and having domestic QSO's below 50.125MHz. **This of course is a no-no** since 50.110MHz-50.125MHz is the DX window. Hopefully things will get better as the summer progresses.

Yesterday, May 12th there was another opening via Es to TEP to South America in the late afternoon. Opening began about 20:30 UTC to South America. Many LUs, CEs and PYs were in very strongly on SSB and CW for several hours. Later opening shifted to Caribbean. FG4NN, NP2X, CO8LY and other Caribbean stations came on. In addition Peter Denny 8R1WD, host of the 8R1DB and 8R1TO DXpeditions, was on for a bit from Georgetown, Guyana.. **Very nice to hear him on.** Victor E51CG from **South Cook Islands** was also into the Southeastern US. I listened intently for him while passing up some Caribbean contacts but his signal did not make it this far northeast.

There was a lot of stateside E skip on the 18th...I didn't work any because I was outside cleaning up beds, etc. I heard that Rusty K1BIX worked into Europe recently from the Ranger's cabin on Cornwall mountain. **That would be a real early season contact.** I haven't been able to confirm it with Rusty, however.

73, Chris, W3CMP



W3HMS / PA3FXB EME QSO #99

W3HMS, John (W3HMS@aol.com) Jan, PA3FXB, and I have made many QSOs on 23 cm EME in JT. So it was a real surprise to note that our total was 98 until the same day we made #99. Jan said we must do something to celebrate and all we could think of was SKYPE. With SKYPE, we envisioned we could each see the others station and WSJT screen and actually see the signal come down in the Spec JT waterfall. Jan has a fine digital video recorder and it gave super photos to me and I did see my signal in his waterfall. His shack tour was enjoyable as well. He used Google maps to show us his QTH then my QTH. We compared ON0EME beacon signals as well. I used a lap top PC carried like a camera for his shack tour but the results I know were not as good as were his photos to me. All in all, for a spur-of-the-moment effort, it worked quite well. Now to get MGM to cover #200, HI!!!!...73, John

Deed Restricted and Rover Antenna Projects at NE3I

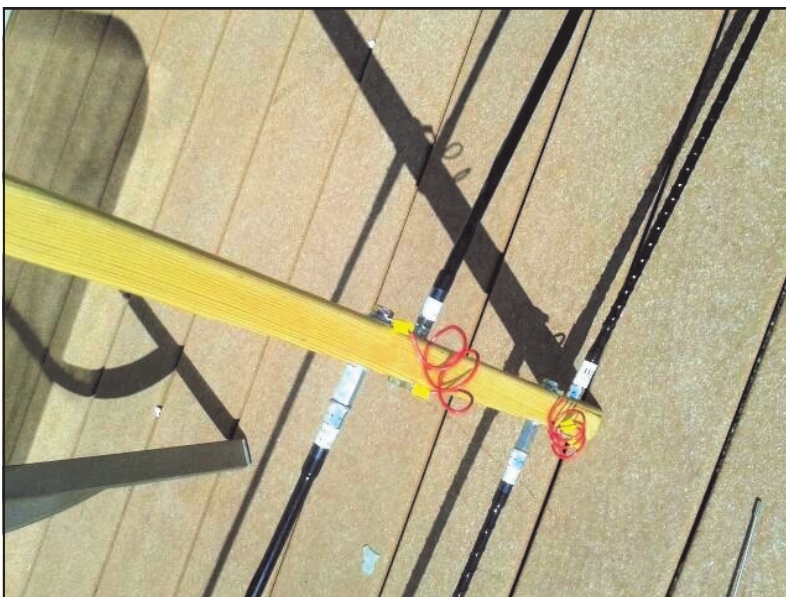
Deed restrictions and a standard size coupe make competing with "the big guys" a real challenge. However, sometimes necessity produces learning opportunities and interesting results. In order to save turning radius in deed restricted space, I decided to try to build a 2 element yagi out of Ham Sticks. I started with a 6 Meter prototype using a four foot one inch wooden dowel. I spaced the driven and reflector elements by about 0.2 wavelengths, and direct fed the driven element with 50 ohm coax. A test using a tripod on my deck showed several DB gain when pointed at the beacon. The beacon was unreadable off of the side.

With this success, I decided to enlarge the project into a 3 band 2 element yagi for 6, 10 and 15 to take advantage of periodic band openings. I used an 8 foot 2x2 wooden boom. (As you know, a 2x4 not 2 inches by 4 inches and correspondingly, a 2x2 is really more like 1.25 by 1.25 but, that is a subject for another issue.) I ended up offsetting each quarter wave Hamstick element along the boom by about 2 inches in order to use a 3/8 bolt and washer from the opposite side of the boom for strength. The reflector elements of course, must be 5% longer than each respective driven element. With Ham Sticks being designed for the phone



Figure 1 (above)- Driven Element, illustrates the offset and direct feed.

Figure 2 (below) - Reflector Element 5% Solution, depicts this solution.



portion of the respective band, I had to increase the length via a "jumper" between the two reflector sticks. For some reason, the 6 Meter yagi had impossible, SWR possibly due to interaction with the other band elements. Consequently, I **revised the plan** for the 2x2 to incorporate only a two band yagi for 10 and 15. The 10 and 15 Meter Band elements are directly fed with the same single line of 50 ohm coax. The 6 Meter yagi was transferred to a separate PVC pipe boom and ultimately mounted below the HF 2 Band Yagi. The HF Yagi is at about 25 feet while, the 6 Meter Yagi is at approximately 22 feet. A four element 2 Meter Beam is on top.

You may notice the "droop" of the antenna rods. The HF Yagi is at the maximum available height right under the 2 Meter Beam. Nonetheless, the ends of one side unfortunately still scrape the roof shingles at a few points.

Results have been rewarding. I am having fun working openings on 10 and 15. Some signals are 5 -6 S Units stronger on the HF Yagis versus my 39 foot wire vertical. Other signals at times are of equal strength but, on the vertical, more subject to fading. I recently worked ZM90DX (New Zealand) on 15 Meter CW using about 50 watts and received a

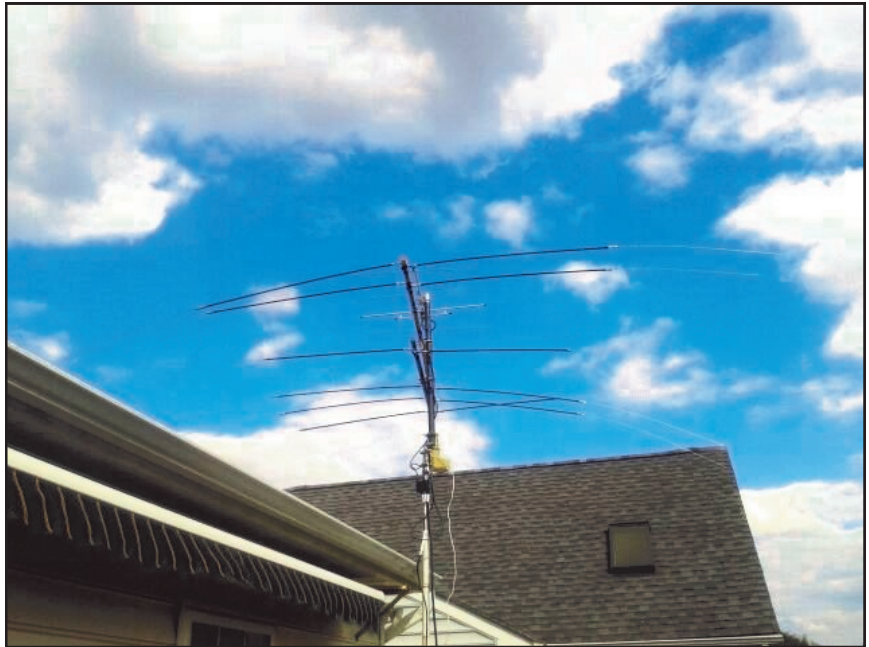


Figure 3 -Antennas Mounted, shows the antennas on the mast above my deck.

599. On May 10th, I worked a 9Y4 (Trinidad) on 6 Meter CW and, during the 6 Meter opening on May 11th, worked 6 LUs, (Argentina) PV8, PY1, and PP1 (all Brazil, I think) and an FM5 (Martinique), also with 50 watts. I can not take credit for the Ham Stick yagi idea as, there are multiple examples posted on the internet. However, the 2 element Hamstick Yagi offers a simple and useful project for deed restricted operators or for Field Day and Portable operations. Disassembled, the 6 Meter version is very light and could easily fit into a car trunk or four foot carry bag. With a 2 or 3 piece boom, versions for 10, 12, 15 and, perhaps other bands could travel likewise and present interesting operating opportunities.

Next episode, -a Three Band (maybe 4) Collapsible VHF Quad for the Rover.

73. Griff, NE3I

PS— I found that the set screws that came with the Hamsticks stripped easily with an allen wrench and had a tendency to vibrate out on their own. So, I replaced them with more robust set screws from the local hardware store and put a dab of blue (temporary) Loctite on the threads before tightening them down. The most expensive item after the antenna elements themselves were the "coupling bolts", i.e., one inch hexagon shaped tubes with threads all the way through. These are used to "couple" the antenna to the respective 3/8 inch hex screw through the boom. Be advised that 3/8 inch size coupling bolts are readily available but in the "coarse" thread variety. I found the "fine" thread coupling bolts in a local Sears where the hardware was housed in those stacked drawers they have. The Hamstick's posts are, of course, no pun intended, of the 3/8 "fine" thread variety. -Stuff you learn when you try to do it yourself! 73. Griff

The Pennsylvania Amateur Radio Conference (PARC)

Oct 4, 2014

The South Mountain Radio Amateurs (SMRA) of the Carlisle, PA area are pleased to announce a conference devoted to inspiring new technologies in our beloved hobby. This will be held at the Whispering Pines, a special events lodge, north of Carlisle, PA from **1200-1600 on Saturday 4 Oct 2014**. Whispering Pines is situated in a delightful country setting with parking for more than 300 cars. Directions are on their Web site googled with "Whispering Pines".

We have been able to schedule speakers who are outstanding in their specialty. They speak at the level achieved by the annual conferences such as **Microwave Update, Southern VHF Society, Central States VHF Society, Northeast Weak Signal Society and others throughout the US.**

Attendance at these events often consumes more time from work and money than desired. Our intent is to make car pooling and low-costs in a single-day event the hallmark of the conference. Thus, the **fee is \$9** for early on-line registration with complementary coffee, soft drinks, and cookies available throughout the event. We do, however, recommend eating outside of event hours, HI!! There are many restaurants in Carlisle but none near Whispering Pines. In keeping with the event level, business - casual dress is highly recommended.

Agenda includes:

- Building High Quality VHF and UHF Antennas... yourself!
- Live demonstration of the latest HF Flex Radio software defined (SDR) transceiver.
- Working the World on the low power HF WSJT-X data mode
- A photo visit to an outstanding HF, VHF, UHF, microwave, contest station
- Automating Your HF/VHF Station logging and control of radios

Target Audience: Whether you have been licensed for 80 minutes or 80 years, whether your interests are HF, VHF, microwave, 2 M FM, other, or all the above, this is an opportunity to expand your knowledge of what is possible today and what may be doable for you even sooner than YOU may imagine. Don't miss the opportunity to attend a top flight conference focused on great presentations with ease of attendance. Seating will be limited, so sign up at your earliest possibility. For lodging, please Google on Carlisle, PA lodging noting that the well-known motels are situated along I-81. We intend to have PowerPoint copies of each presentation on a Web site after the conference with details being announced at the conference. Please bring your own paper/pens/other for note taking.

Registration with payment processing and receipts is on the following SMRA Web site<http://n3tw.org/events/parc> (all lower case)

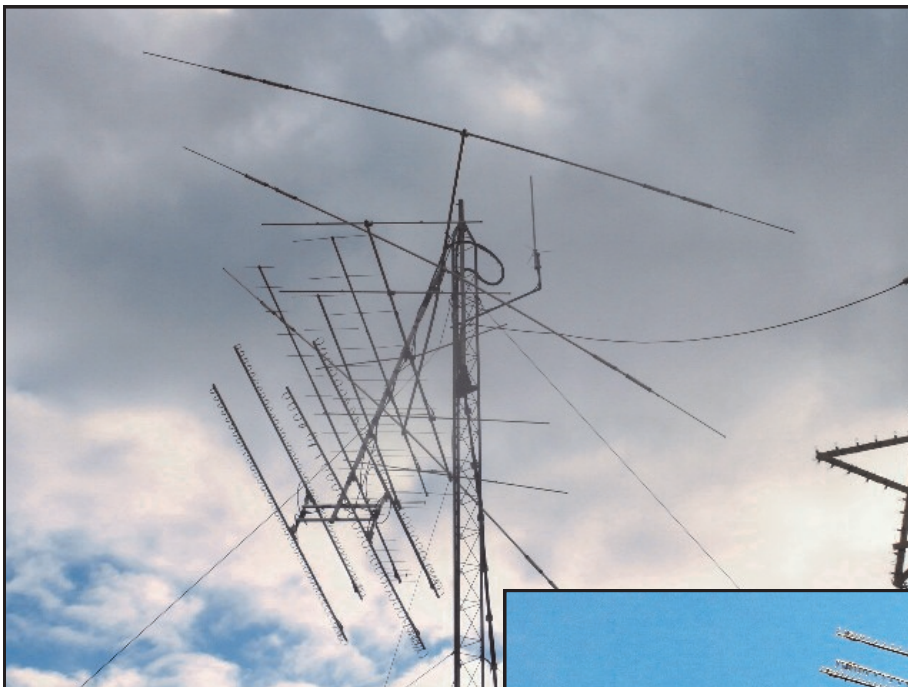
For program/technical questions not addressed above, please contact **John Jaminet, W3HMS**, at EMAIL: w3hms@aol.com. For logistics questions, please contact Don Evans, KB3VAX, at EMAIL: kb3vax@yahoo.com

WA3SRU Station Repair Finally Finished

Thought I'd send a couple pics of the finished HyGain HG-54HD tower with all antennas in place. One picture "before" and 2 pics of "after". Had all work done for January contest except for the Cushcraft A3S Tri-Band Beam. It did suffer a bent mast and one broken element. The element was replaced with W2BVH's contribution of a piece of aluminum. I was also able to unbend the mast. On Saturday of Memorial Day weekend, my friend Tony came over. We lowered the tower, then tilted it over just enough to mate up with the mast mounting plate (7ft off the ground). Ran a new coax and then raised the tower. Tried it out and it works great.

The only project left now is to install an antenna for 2304 and finish the DEMI 144 to 28 intermediate transverter. Then I can install the 2304 equipment and add another band.

73's **Joe WA3SRU**



...WA3SRU cont'd



Wider angle view of the "after" results at WA3SRU

Lenny,

Attached is a pic of me giving Michelle, KB3MTW her award for Most Improved score. This was the results from the January VHF Contest. Michelle did not make the awards meeting due to being under the weather. So, I brought them to the Warminster ARC Meeting to give them to her. Michelle used to operate from her old Condo, which was a real feat due to being in the **middle of 3 floors in a building with rebar and concrete**. She moved to her new Condo, on the top floor. She operated on four bands and is preparing to add two more. She has gone a long way to improve her station. She increased her score by 127.9 %. Joe Fisher, KC2TN, also got one for 140 % improved score.



73's Joe WA3SRU



**‘Rats:
they’re
everywhere**

Spotted on the road in Morocco. (Where is it? It's just south of Spain.)

Picture by K1DS

The Wayback Machine

Gleaned from the pages of

Cheese Bits, June 1964

(Vol. VII Nr. 3)

(Authors comments in *italics*)

- Cover story. Interesting. The cover story in June repeated the chronicles of W3CCX, Matt Gelardi, which appeared in the May issue. In her Editor's corner column, Helen laments the fact that all 220 mailed issues were never delivered, and could not be found by the Post Office. *(I probably have the only existing hard copy, which was in Helen's personal archives. But now you too can read it at W3CCX.com!)*
- Editor's Corner. Helen reported the gist of a letter that appeared in the "Dear Abby" column of the Evening Bulletin *(things that aren't there anymore)* on 5/19/64. The letter, written by a resident of Alaska, praised the Ham operators for the help they provided after the disastrous earthquake *(details in the May issue. How old is Dear Abby? Her column still appears in the paper!)*.
- Two meter net moving from 144.2 to 145.2, to accommodate Technician operators *(formerly [but no longer] restricted to operating above 145)*.
- The elections, scheduled for the June meeting, included Director Nominee K3IPM, Stan.
- June contest operation to be held at Hiltown. The club will operate on 6, 144, 220, and 432. 6-meter captain K3ACR, Rich.
- Family day and picnic scheduled for August 9, Ft. Washington State Park. \$1.00 per family.
- Swap Shoppe. Included an ad for an HQ 170C receiver (like new). *(Did you read the nostalgia article in May QST about the HQ 170? The C version had a built in timer to turn the set on in advance of use, to "stabilize" the circuits!)*
- Member W3IBH, Charlie reports that he has 4500 QSL cards, from operating only on 2 meters. *(Charlie had a powerhouse signal from his good location in Germantown. In the January contest, he would always get to 300 contacts and 10 sections on 2 meters only, and then stop.)*
- Transmitter Hunt report. Held on May 9th, 60 hounds participated, in 25 cars. The transmitters (50.7 and 145.8) were hidden on Valley Forge Mountain. Club member winners; K3IUZ for 6, and W3AJF for 2. *(I still think this would be a good sport to resume, using FM rigs which everyone now has).*
- Two Meter Activity report, by Dave, W3ZD (nee W3LHF). Dave comments briefly on the normal level of activity, and then proceeds to spin a couple of tales about his problems during his recent fishing trip with Ernie and Ozzie. The stories rival some of the K3JJZ sad but true humorous stories. *(I suggest you read the full article on W3CCX.com).*
- Six meter report by K3ACR, Rich describes some good Sporadic-E

contacts with VP7s, and western states including Nebraska, Iowa Minnesota and S. Dakota

- ARRL Bulletin Nr 948. The first two-way, 144 Mc (MHz) moon bounce contacts were made between OH1NL in Finland, and W6ONG in Long Beach, CA. “The distance is nearly 6000 miles, and it was the first transatlantic contacts by Amateurs on frequencies higher than 6 meters”.
- Two articles from the missing May 1964 issue were included, to ensure they received adequate publicity. One concerned SPARCS (Society for Promotion of Amateur Radio Communication Service), and the other detailed the operation of the “Eyeball Net” which serves to facilitate medical needs for eyeballs (*I suspect it was really corneas they were talking about, not full eyes!*).
- Helen described her visit to the K2US station at the World’s Fair. She mentions 3 complete stations using equipment supplied by Hallicrafters (*where are they now?*). 2 meters, 6 meters and HF. The operators at the time were very busy passing traffic on 20 meters. Any visiting Ham can operate the station, but must have their license with them.
- “Two more future Hams”. Helen notes that Harriet, the XYL of K3IUV, Bert (*ye author*) arrived home with a baby girl this month. Also, Lorraine, the XYL of K3JJZ, Elliott (*our computer guru*) arrived home with a new baby boy a few days later. (*As I write this on a Saturday night, we are preparing for the 50th birthday party for Bonnie, on May 24th, and Lorraine and Elliott are celebrating with their son Brian!*)

(As in previous editions, many “folksy” comments about members, their families, and activities were included in this edition of Cheese Bits. If interested, or for more details, visit www.W3CCX.COM and read the full issue scanned by me, and posted there by our Webmaster, Ron, W3RJW).



thirty, de K3IUV

CSVHFS

The Central States VHF Society, Inc. is soliciting papers, presentations, and Poster displays for the 48th Annual CSVHFS Conference on 25–27 July, 2014. Papers, presentations, and Posters on all aspects of weak-signal VHF and above amateur radio are requested. You do not need to attend the conference, nor present your paper, to have it published in the Proceedings. Posters will be displayed during the two days of the Conference.

More information can be found at: <http://www.csvhfs.org/2014conference/2014callforpapers.html>

Tom / K5TRA csvhfs2014@gmail.com

N1JEZ has a very interesting paper on linearization of LDMOS VHF power amplifiers at http://users.burlingtontelecom.net/~n1jez@burlingtontelecom.net/images/Eastern_VHF_UHF_Conf_2014.pdf
A complicated process with incredibly good IMD results

Mid-Atlantic VHF States VHF Conference Sept 26- 27-28

InnPlace Hotel, Bensalem, PA (soon to be a
Holiday Inn)

**Special Conf rate \$79/night + Tax,
includes light continental breakfast**

**>>>NOW ACCEPTING PAPERS
AND PRESENTATIONS<<<**

**Early Bird Registration (\$40) now available on-
line at**

[http://dataandwireless.com/
packrat/2014_vhf_registration.php](http://dataandwireless.com/packrat/2014_vhf_registration.php)

Fri Sept 26-Hospitality and table-top selling 7P-
11P

Sat Sept 27- Conference 8A-5P Pizza lunch and
snacks included for paid registrants

Technical equipment testing by **Rohde &
Schwarz**

**Antenna range testing--please let us know what
you are bringing.**

**Saturday evening buffet banquet and door
prizes* \$40**

Sun Sept 28-8A-11A mini-outdoor flea market
Check the web page for updates and speaker
list www.packratvhf.com

**Questions or paper & presentation
submissions to rick1ds@hotmail.com
or call Rick 215-284-5517**

*You must be registered and paid for both
conference and banquet to be eligible for door
prizes

W3SZ Looking for New Neighbor

Great Radio Location!

Roger, W3SZ, says that his Hilltop neighbor is moving. Roger is very sad to be losing such a great neighbor, but he is hoping that this great radio location [higher than the Reading Pagoda, excellent radio horizons] will be purchased by a ham who can take advantage of this great radio location. Roger operates only VHF, UHF, and microwaves, and says that having two hams side by side would be great, with lots of synergy for projects! Roger won First Place nationally in the ARRL January VHF Contest Low Power Division several times from here, (2007, 2010, and 2013), and won First Place nationally in the ARRL UHF Contest Low Power Division from here in 2007 from this location, so you have proof that the site is **Second To None!!!**

The "numbers" for the property and the Reading Pagoda are:

Height in Feet ASL:

944.831 for the Property

881.980 for the Pagoda

The house has 4+ bedrooms, 3 bathrooms, is on a beautiful Hilltop site in Cumru Township. The property is for sale by owner. If interested call Donna at 610-334-6028, or if you want to "talk radio" about the site, email Roger W3SZ at 73w3sz@gmail.com.

Simple (and odd) way to test remaining battery life:

See Youtube video at [www.youtube.com/
embed/Y_m6p99I6ME](http://www.youtube.com/embed/Y_m6p99I6ME)

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Events

For inclusion, please direct event notices to the editor.

ARRL June VHF QSO Party - Contest June 14-16, 2014. The annual Camelback trek. **In two days!!!**

CSVHFS Conference— 48th Annual Conference July 25-27, 2014 in Austin, Texas. See <http://www.csvhfs.org/2014conference/index.html> for details

ARRL August UHF Contest - August 2-3, 2013. Details to follow.

10 GHz and Up (round 1) Contest - August 16-17, 2014. Details to follow.

September VHF QSO Party - Contest September 13-15, 2014. Details to follow.

10 GHz and Up (round 2) Contest - September 20-21, 2014. Details to follow.

EME Contest 2.3 GHz & Up Contest - October 11-12, 2014. Details to follow.

EME Contest 6M - 23 cm (Contest) - November 8-9, 2014. Details to follow.

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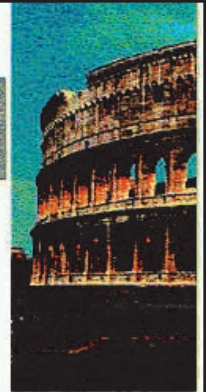
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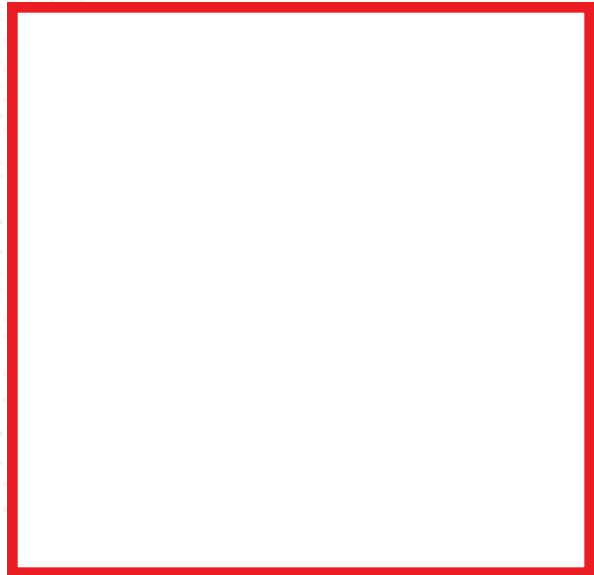
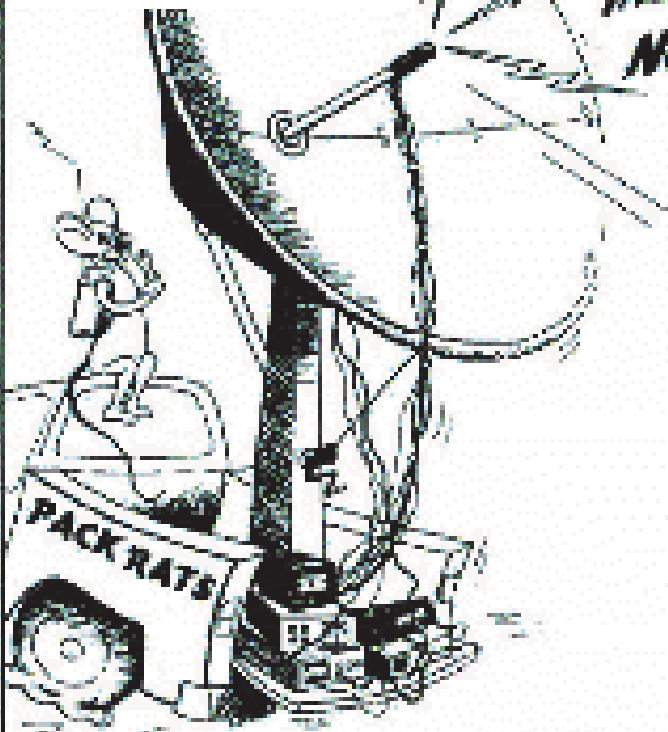
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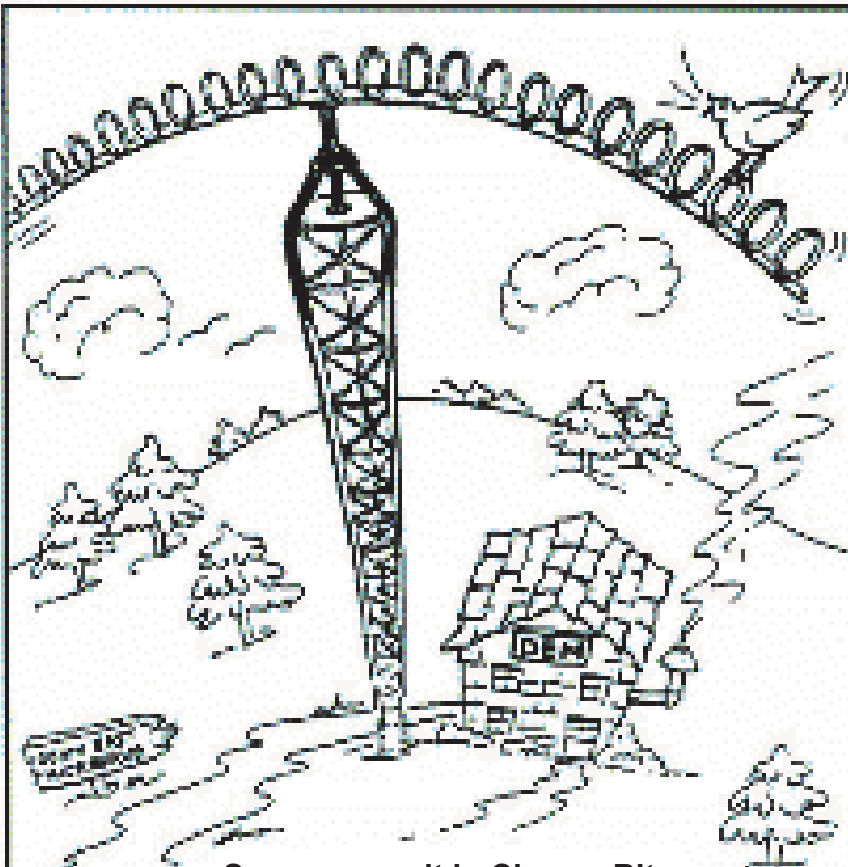
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