Mt. AIRY V.H.F. RADIO CLUB, INC.

CHEESE BITS

ARRL Affiliated Club

W3CCX
CLUB MEMORIAL CALL

Volume LIV **November 2013** **Number 11**

PREZ SEZ:

Time marches on and this year is approaching it's end. Unless you never turn your radio on, you have to have noticed that the low bands have been hopping with activity due to the fine sunspot activity we've been enjoying.

10 meters has been nothing short of spectacular. Ordinarily during a contest the activity is confined to a couple of hundred KHz around 28.5, but this time during the recent CQ WW SSB contest the activity was all the way up through 29.5 MHz and even included FM. It was funny to see SSB stations attempt to call an FM station who will never hear the SSB station. Along with many others, I accomplished my highest personal score for an HF contest. All of the bands were extremely active. It's not too late to find some of these conditions. Just about everyday since the contest, conditions have been excellent, so better get it while you can. I'm sure you have a wire out in the yard, tune it up and get on the lower bands.

Later this month you will have a great opportunity to tune up your contesting skills in anticipation of the January contest with the November Sweepstakes, and next month there's the ARRL 10 Meter contest. Get on the air and make some noise.

I wish there was time to participate in the EME contest as well, and many of our club did very well. EME was on the same weekend as CQ WW SSB and sometimes we have to make a choice. Round 2 for 50-1296 is coming up the 16th and 17th of the month. Time to work the stations you didn't get to on the first round.

Members I am aware of operating this are: K1JT, K2UYH, K2TXB, K2LNS/WA2FGK, K1DS, W3HMS, WA3GFZ, W3SZ, WA3QPX and WB2RVX — what a lineup!

I spent a week last month taking the last of my grandchildren to Disney World. It was a prefect week with all flights cooperating, weather in the 80's while you were seeing your first signs of frost and freezing weather. And as I'm wandering my way from Magic Kingdom's Main street over toward Adventureland, who do I see but Lenny, W2BVH, our consummate Editor along with his family. We shared a few pleasantries and were on our way as the family didn't want to hear about any radio related interference :-)

What have you done to improve your station this year? Is there anything left to prepare for a successful January Contest? There is still time and the weather is still nice enough to get antenna and tower work done in comfort. Do you need help? Do you need any equipment? Contact one of our Contest Chairmen: K3EGE and K1DS. We have equipment available and I know of at least one tower repair venture in the planning. Make your requests known.

This month's meeting will be a live WSJT demonstration, for those of you who just haven't taken the initiative and need to see it in action, this meeting is for you. Come and learn how to add points during the January Contest. Or just have fun working stations outside of your normal range of communications. Of course you can join us first for dinner at Giuseppe's, diagonally across the parking lot from the Ben Wilson Senior Center.

Pack Rats **CHEESE BITS** is a monthly publication of the
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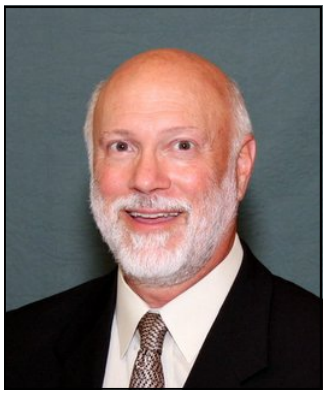
PACKRAT BEACONS - W3CCX/B
FM29jw Philadelphia, PA
50.080 144.284 222.064 432.286 903.072 1296.245 MHz
2304.043 3456.207 5763.196 10,368.062 MHz (as of 1/08)

MONDAY NIGHT NETS

TIME	FREQUENCY	NET CONTROL
7:30 PM	50.145 MHz	K3EOD FM29ll 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

Another view on the end of the year and November in particular, is to thank all of you, the members, for your participation in club activities.



Thank you for your efforts to improve your station, get on the air and help others with their stations.

Thank you for your service to the amateur radio community. Now enjoy your family this Thanksgiving season,

And lets work on lots of bands in January,

Phil K3TUF

A goofy picture with W2BVH & family

Aircraft Scatter Assistance with a New Program

By Roger W3SZ

A bit more than a year ago I posted to the Microwave Group Email List regarding a program I wrote to assist with aircraft scatter. That program was written in visual basic and worked with PlanePlotter as a front end.

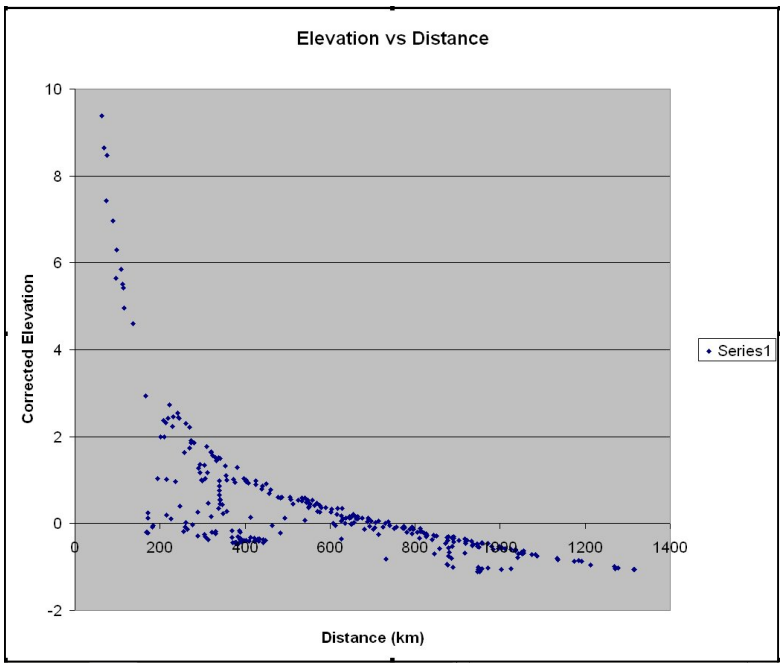
A few weeks ago I uploaded to the web a replacement for that program. The new program is written in C# and does not use a front end, but rather downloads plane data directly from an internet plane server (or from a local RTL1090-based plane server, or from both).
That program, a description of it along with some instructions for its use is available at:
http://www.nitehawk.com/w3sz/AircraftScatter.htm

The program should be considered beta software. It has been installed and has run without problems on more than 10 machines. It has been tested on both 64 and 32 bit versions of Windows 7 and on Windows XP 32 bit version and runs fine on those. It is not tested on, is not intended for, and will not be supported on other operating systems.

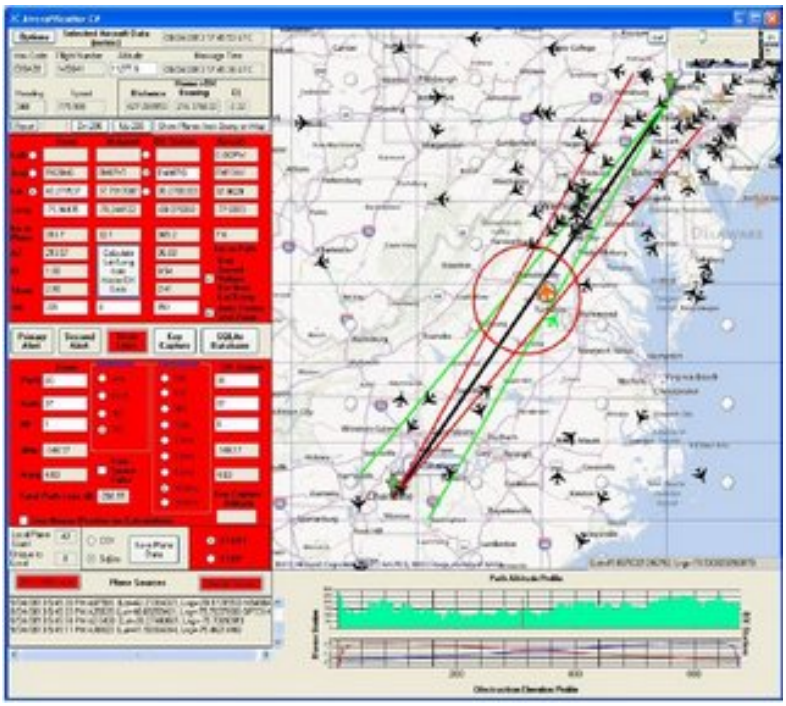
Also available at the same website are slides from a lecture I gave on Aircraft Scatter. Here's a direct link to the pdf: http://www.nitehawk.com/w3sz/W3SZ-NEWAirCraftScatterPackRats2013.pdf

Any feedback would be appreciated. Mail me at 73w3sz—at—gmail.com

The new program provides:
1. Real-time plane position information capture and display
2. Display of the direct path line between two stations, along with skew lines to allow a quick assessment of the angular deviation of an aircraft position from the direct path line for both stations, and a midpoint circle to show when an aircraft is within a specified distance from the midpoint of the path. Path altitude and elevation/obstruction profiles are also shown.
3. Highlighting of aircraft near the ideal position for "reflection", based both on distance from the midpoint of the path as well as angular deviation from the path.
4. Real-time calculation of path loss/received signal at both locations based on plane location and user-adjustable station parameters
5. An integrated SQLite database that allows you to save information on all planes appearing on your screen for however long you want [minutes, hours, days, weeks, months]. You can analyze that data to determine when aircraft scatter opportunities will most likely appear. You can analyze the data without interrupting its collection. **Powerful SQL search functions** are automatically included and easily selectable using **only mouseclicks** to generate the SQL query statements.



Here is a graph of the elevation angles vs. distance for planes that I have tracked here with PlanePlotter. Only really close-in planes will have an elevation of above 2 degrees or so, so you don't need to have elevation control unless your antenna beamwidth is very narrow.



The programs main form has a map on the right side of the form which contains a real-time display of all aircraft downloaded from the server. The aircraft icons shown on the map accurately represent aircraft positions and headings. Planes from the internet server as shown in black, red, or green depending upon their position, and planes from the local server are shown in brown. Below the map is a path altitude profile and a path elevation profile for the path between the home and DX stations. On the left is the data and calculator area. The path between W3SZ and W4DEX shown on the map has been selected by entering the appropriate 6 digit grid square for W4DEX, and entering latitude and longitude directly for W3SZ into the text boxes on the left. This causes the direct path line, the skew lines, and the midpoint circle to be drawn on the map along with markers and labels for the Home and DX stations.

Additional info at http://www.nitehawk.com/w3sz/AircraftScatter.htm **and at** *http://www.nitehawk.com/w3sz/AircraftScatter.htm W3SZ*

1296 EME in the Poconos

This week (10/20/13) I finally got everything ready to try our 12 foot dish on 1296. Activity has been very slow, due to the EME contest next weekend. I had a prearranged sked with Peter G3LTF who Andy worked 31 years ago. Andy had built an amp while working for MSC in New Jersey. The company gave him permission to use their devices if they could be credited. The amp went to Al Katz's (you know that guy, don't you) and with his monster dish, the first ever solid state EME contact was made with Peter.

So since Peter is still very active, I felt it would be fitting, to **work him after 31** years. He was very loud at 559 on CW. That evening I also worked OZ6OL and DF3RU. All CW contacts.

Thursday I decided to try JT65C and was rewarded with contacts from VE3KRP and PY2BS. Also worked was UA3PTW on CW. He was loud enough to be worked on SSB.

Friday evening was very slow. But was glad John W3HMS showed up and he was easily worked. As was ON5TA, both on JT.

Last night I thought there would be much more activity, but again, I think guys are saving energy for next weeks contest. I was able to work on JT RD3DA and W3HMS once again. Then a bit later, the big guns showed up. I worked the following on both CW and JT65C OK1DFC - OK1KIR and I1NDP.

I need to get a mic near the radio since I am sure several stations could have been worked on SSB. What I am seeing right now is that my system can work another station running about 150 watts and a 10 foot dish.

The best part about 1296 EME is not having a faraday problem. Since the feeds are all circular polarized. Takes the guessing away from "What If's".
That's it from Bear Creek. Herb K2LNS
Stn mgr for the WA2FGK

EME Contest

(Reported on 10/27/13)

This weekend was the first leg of the ARRL EME Contest. My primary reason to operate was to try our new 1296 system. On Friday night I started very slow as the moon rose after midnight. Finally on 2 meters I was able to start working stations.
144 Mhz worked:
YT1AR - OE3FVU - RX3AA - LZ1DP - OK1DIX - DK0KK - WA4NJP - LZ2FO - SK6EI - IW4ARD
1296 Mhz Worked:
HB9Q - W5LUA - GM4PMK - PA3FXB - UA4HTS - UA3PTW - ES6RQ - RA3AUB - OH1LRY - G4CCH - DL3EBJ - SM4IVE - DL0SHF

Now 1296 seems to be our best band. Many contacts can be done on SSB. Massive amounts of very large dish antennas around the world produce very big signals.

I operated for about 5 hours Friday into Saturday morning. And was very pleased with my 1296 system. The 12 foot dish turns very slow but effortlessly and very precisely.

On Saturday evening/morning I was able to start operating around 1 AM. Again the first contacts were on 144 Mhz.
144 Mhz worked:
K3RWR - 3Z4EME - UA3PTW - UR3EE - G4ZTR - RU1AA - PI9CAM - YL3CT - DG0OPK - IN3FFN - W7MEM - UR7D - YL2AJ - I2FAK - SM4GGC - OM3BC - DK9ZY - LU1A - DL1SUN - W6YX

I did operate for a bit on 432 Mhz but am still waiting for our 432 mast mounted preamp to be completed. My transmit power is very high, but have some trouble with peanut butter in my ears. So I didn't stay on the band to long
432 Mhz worked:
DK3WG - DF3RU - UA3PTW - K4EME - ES3RF - G4RGK

I had a sked with Tommy WD5AGO on 1296 at

….EME cont'd

5am. So switched over to that band even though I was still able to run stations on 432.
1296 Mhz Worked:
WD5AGO - OE5JFL - I1NDP - SP6JLW - SV1BTR - PI9CAM - IV5VLS - IK3COJ - OK2DL - W6YX

After the contest I saw several items that need correcting. But overall our small system has the ability to make many contacts around the world off the moon. Also note that there were very few stations that participated in the USA. Asia and Russia are like ham radio in our country in the 1970's. Very active.

I hope to have my problems corrected and will again operate the 2nd leg of this contest in November

73's from Bear Creek Herb **K2LNS**

….EME cont'd

well and it was only a few degrees above 0°C the first night so I was running the engine for heat and dressed with plenty of insulation.

The second night pass had cloud cover so the cold was not as bad. My neighbors were very cooperative and didn't complain about having the van and trailer with the dish in my cul-de-sac.

After pursuing this EME dream for ten years, I am delighted with these results. I am hoping to be on 432 for the last leg in November.

Rick, **K1DS**

EME

This was my first attempt to operate my own station on 1296 for the contest.

Each time I operate, I need to assemble the dish, feed, and cables and move the trailer to a suitable position for the moon pass.

Using a 3m dish, OK1DFC feed and PE1RKI 275W amp and a WD5AGO preamp, I managed to have **20 CW QSOs** in the log, including SM4IVE, DL0SHF, OK1CA, IZ1BPN, G3LTF, I1NDP, K1JT, SV1BTR, OK1CA (dupe), N2UO, F5SE/p, K5GW, WD5AGO, VK3UM, OE5JFL, OZ4MM, G4CCH, OK1CS, OK1KIR, OZ6OL.

Many thanks to all for their patience with my small signal, and providing me with such large signals to hear. Heard but missed JA8ERE, HB9SV and I think RU3AUB. Spent the first night sitting in my van next to the trailer.

The umbilical cord of cables and coax from the rig and controls did not allow the door to close

CQ WW SSB Report

Call: K3TUF
Operator(s): K3TUF
Station: K3TUF

Class: SOAB HP
QTH: EPA
Operating Time (hrs): 23

Summary:

Band	QSOs	Zones	Countries
160:			
80:	19	9	16
40:	128	26	65
20:	193	31	91
15:	195	27	103
10:	364	29	108
Total:	899	122	383

Total Score = **1,286,235**

Club: Frankford Radio Club

….CQ WW SSB cont'd

Comments:

The family was in FL all week and arrived home by early Saturday morning, so got off to a late start.
Had success with the new 40 meter beam through the early part of the night on Saturday and couldn't get on 80M at all.
So I worked on the 80m array during the day Saturday. In spite of getting the antenna to perform, it didn't do as good as I expected, only had 19 qso's on
80. But where 80 lacked, 10 meters shined. I know everyone had a good time on 10.

Stations were working up above 29 MHz and even on FM.

New antenna arrangements worked well above 4 MHz, but below, it was a disaster.

Not enough time between VHF/UHF and HF contests.

Enjoyed the time and the friendly atmosphere for the most part. Looking forward to CW.
73,
Phil K3TUF

CQ WW SSB Report

Call: WA3SRU
Operator(s): WA3SRU
Station: WA3SRU

Class: SOAB LP
QTH: EPA
Operating Time (hrs): 27:21

Summary:

Band	**QSOs**	**Zones**	**Countries**
160:	3	2	1
80:	13	5	6
40:	15	6	12
20:	140	18	54
15:	194	23	67
10:	242	17	65
Total:	607	71	205

Total Score = **477,204**

Club: Frankford Radio Club

Comments:

Great contest. Actually worked all 6 bands with 100 watts. 10 meters was so good, I spent a lot of time there. Best score of any contest for me.

73,
Joe WA3SRU

6 Meter Report

Here is something a bit different-it's a write up of new equipment for six I put in my latest "What's On Six" column. Although the Gemini amp isn't FCC approved yet, I think it wouldn't be too hard to get one over here. It looks as though it can give a nice boost to the average home station. The only reservation, if any, is that output power of most transceivers must be reduced to use the amp (**watch the ALC overshoot** transmit power spikes), and that the input power must be specified at the time of purchase (I suspect a fixed attenuator is installed at the factory).

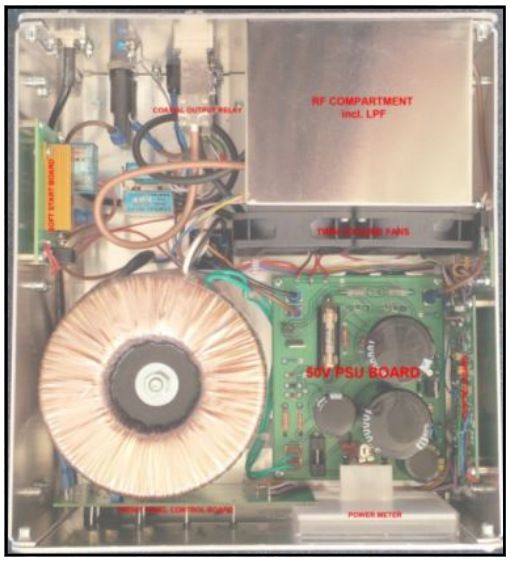
The Tokyo Hy-power HT-750 is a real neat rig that can be purchased by contacting Tokyo Hy-Power directly at: info@thp.co.jp.

The 6N4 is an enigma. I have not been able to get any more information about it. If 4 meters ever becomes available here in the US there will be a mad dash for equipment for the new band; maybe the manufacturer of the NR-6N4 knows something we don't.

Linear Amp Gemini 300W Solid State Linear Amplifiers

Linear Amp UK has announced the Gemini series of solid state 300 watt linear amplifiers with integral linear power supplies. The new amplifiers are designed, manufactured and assembled in the UK, and are available in six, four, and two meter versions.

According to Linear Amp, these amplifiers are designed to fill a market gap between the low power outputs of transverters and smaller rigs and the one kW-plus amplifiers that not all users want or can afford. The Gemini range of amplifiers has drive requirements of 3-25 watts. The exact input power is user specified at time of purchase. The units feature instant-on solid state performance in a compact, attractive aluminum package. Dimensions are 270mm (10.6") w x 300mm (11.8") d x 120mm (4.7") h.



Gemini Amp internal construction

The RF section has been designed exclusively for them by Chris Bartram GW4DGU, of Mutek fame, and use the Freescale MRFE6VP6300HR3 LDMOS device for high performance and maximum ruggedness. The amplifiers are designed to meet the requirements of ETSI EN 301 7831 v1.2.1 with regard to conducted spurious emissions. They have built in protection for **overdrive, high SWR and over temperature** to ensure reliable performance. Although not mentioned in the information provided, it appears that PTT is accomplished by ground on transmit.

Specifications for the Six Meter Unit:

Frequency Coverage	50-54MHz
Power Output @ 1db compression	300 watts
Power Output @ -30db IMD	>250 watts
Spurious Output	<-70db@300 watts
Input Power	3-25W (specified when ordered)
Efficiency (RF)	>65%
RF Device	1 x Freescale MRFE6VP6300H

Protection	Overdrive, SWR, Over Temperature
Relays	Coaxial Output and Input
Metering	RF output
Power requirements	230V AC 50/60Hz
Dimensions	270w x 300d x 120h mm
Weight	10kg (22lbs)

The GEMINI amplifiers are advertised as plug and play units. They incorporate a complete 50V linear power supply; no external PSU is required. The units carry a two year warranty. Linear Amp says that orders now being taken for delivery December 2013/January 2014. Price of the unit as of October 3rd is £849.00 including VAT.

Linear Amp also intends to produce versions for 432MHz and 1296 MHz. These units will become available during 2014. More information can be found at: http://www.linearamp.co.uk/.

Tokyo HY-Power re-releases the HT-750

If you recall, recently Tokyo Hy-Power recently released preliminary information on a new multi band HT, similar to the legendary HT-750 tri-band HT. On 16th September I received the following email from Nobuki, head of Tokyo Hy-Power:

"Chris,

I hope you have been well. Today I have some interesting news about our QRP product that had been very popular 1996 ~ 2002.

We have some limited quantity of stock now for HT-750, 3 Band HF (40/15/6metre) SSB/CW 3 watt transceiver. They are refurbished products and fully brushed up, looking brand new in good condition. We have accompanying high gain collapsible antennas (for 40, 15, and 6 meters) as well as soft case.

I wonder if you have club members who might be interested in this unique radio. I can offer you a special kit price of US $499.00 (plus shipping)… including all antennas, and soft case.

Looking forward to hearing from you soon,

73,

Nobuki Wakabayashi, JA1DJW"

Those of you who are familiar with the HT-750 know this is a real bargain. For those of you who aren't, a brief stroll around the internet will acquaint you with the qualities of the unit. There are a couple of **You Tube videos** that show how sensitive its receiver is.

Noble Radio NR-6N4 Two Band VHF Transceiver

Noble Radio, a new amateur radio equipment manufacturer, has announced its first venture into the ham market – the NR-6N4 dual band six and four meter multimode transceiver. The radio appears to be a repackaged commercial unit, and no firm introduction date has been announced.

Preliminary Technical Specifications, which are subject to change, are:

1. RECEIVER SPECIFICATIONS

Frequency Coverage:

4M: 69.9MHz to 70.5MHz

6M: 50.0MHz to 52.0MHz

Modes: SSB (USB /LSB) and CW (No FM)

Circuit Type: Down converting design.

Dual Conversion: 1st IF: 10.7MHz 2nd IF: 25KHz

Sideband elimination using phasing techniques with digitally generated Quadrature carriers and Image Reject Mixers preceded by 15kHz crystal roofing filters.
Ultimate receiver bandwidth set by adjustable SCAF filters. Two 8th order filters used; one for High Cut and one for Low Cut.
Sensitivity:
MDS = -130dbm
Dynamic Range Figures:
Blocking: 110db
IMD (3rd Order) = 95db
Selectivity:
500Hz to 4 KHz adjustable with the SCAF filters.
Ultimate attenuation of filters is 55db or better.

2. TRANSMITTER SPECIFICATIONS
Frequency Coverage:
4M: 69.9MHz to 70.5MHz
6M: 50.0MHz to 52.0MHz
Modes: SSB (USB & LSB) and CW
Output Power: 20 watts CW or PEP SSB
SCAF Filters can be used to tailor SSB Transmit audio.

3. GENERAL SPECIFICATIONS
Synthesizer: DDS/PLL synthesizer with 10Hz minimum step size. Tuning rate is variable depending on the Tuning Knob speed (Variable Speed Tuning - VST)
Memories: 10 memories per band
Antenna Impedance: 50 ohms unbalanced
Supply Voltage: 11.5 to 14 Volts Regulated DC (negative ground) at approximately 3.6 amps at full output power.
Dimensions: 8 in (203 mm) W x 12 in (305 mm) D- including knob and heat sink x 3.75 in (95 mm) H - including feet
Weight: Approximately 4 lbs. (1.8 kg)

4. SPECIAL FEATURES
The NR-6N4 has the capability of being controlled by a standard PC type keyboard that plugs into a rear connector. Once a keyboard is interfaced to the radio, it can be used to directly enter a frequency, skip directly to various functions by a single press of a function key without having to navigate the menus from the front panel buttons as well as being used to send CW via the keyboard. There is also a built in keyer function that operates with a standard keyer paddle for CW operation with or without a keyboard connection.

The low level 10.7MHz IF signal is also brought out to a rear connector so that it may be used for panadapter or SDR applications. The price is expected to be around $800. More information can be found at www.nobleradio.eu.

NR-6N4 Radio

73, Chris W3CMP

The Wayback Machine

Gleaned from the pages of
Cheese Bits, November 1963
(Vol. VI Nr. 8)
(Authors comments in *italics)*

- Cover. In lieu of her usual holiday drawings, Helen describes how she helped someone in need, when she found a disoriented person wandering near her home in Olney. She and Frankie (W3SAO) spent some time helping to return her to her family, and chronicled the events. She pointed out that it was the weekend of the ARRL Simulated Emergency Test, and that they knew what to do because of their continuing training during these Tests.
- Things that aren't there anymore. From 10/21 – 10/26, the Delaware Valley Council of Radio Amateurs provided an exhibit at the United Nations week celebration. The exhibit was on display in the **GIMBELS** store (***old enough to remember*?),** and included live demonstrations of radio contacts with Hams "throughout the world". Antennas were erected on the roof of the GIMBELS building in center city.
- Extracts of an address by Herbert Hoover, Jr., (President of the ARRL) at the Atlantic Division Convention in Washington were included. These remarks outlined the league's proposals for improvements in the incentive licensing program, and generated some controversial comments. (***Read the article and judge for yourself*).**
- FCC license fees. The FCC had proposed, and ended up adopting, fees associated with Amateur license processing. Their detailed rulings, together with an ARRL petition to reconsider, were published in this issue. Final fee for new or renewed licenses: $4.
- Allied Radio Corporation of Chicago (***remember them*?)** reports they will create a National Amateur Radio Award, with details to be developed and soon released. (*For some interesting history, Google and read the **Wikipedia account of the rise and fall of Allied Radio**, after it was gobbled up by Radio Shack*).
- Syracuse VHF Round-Up. A number of the club members (and a few xyls) traveled to the Round-up that year. Harry, W3CL reported on the affair. This was an annual event, held at the 3-Rivers inn in Syracuse (*I still have my ticket stub from the 1969 Roundup! See the scan at the end.*) It was the annual gathering point for active devotees of the VHF bands. Speakers covered a number of topics of interest to the VHF crowd, including such topics as "Pulse Techniques for Amateur Microwave", Non Man Made Radio Signals in Space, and a new design for a noise blanker by Sam Harris, W1FZJ. Sam was one of the early pioneers of Ham Moonbounce activity, using **Parametric Amplifiers** and other exotic devices. Some time later, he worked at the big dish operation in Arecibo, occasionally putting it on the 432 Ham band.

Additionally, awards were presented for the June QSO party contest winners. National single operator award was presented to the club's own Stan, K3IPM. In his remarks after receiving the award, Stan reminded the audience to "work Packrats come January". Stan was/is a real contester.

- Lots of detail included, on the activities of the ARPSC (Amateur Radio Public Service Corps). Our local chapter conducts nets and other training exercises.
- New products of Interest to Hams. Lynn's column (W3NSI, SK), describes several new items. Included were a novel AC plug whose grounding pin could swivel out of the way when used on older receptacles, miniature rotary switches from Alco, and a set of phenolic Toroid Retainers (*I used these to hold the surplus Bell Tel loading coils for the filters in my RTTY converter*).
- The Franklin Institute was looking for an operator for their amateur station (***Is it still there*?)**
- Report on a Heathkit Sixer, dynamotor and Mike stolen (by someone over six feet tall) from K2IQN's car parked in W Philly. A $15 reward offered for info (*almost more than the rig cost*!).
- Director's meeting comments. Treasurer's report. We have $122.86 after all bills were paid (*how times change*!). K3IUV (this author) suggested that "more top brass of the club call in on the 2-meter net instead of 6".
- Swap Shoppe Item. For sale by W3NWS: PU-49/VRC Dynamotor. 6vdc in, 500vdc out@ 200 mils. (*For those not familiar with dynamotors, they were our source for mobile power. A motor and generator on a common shaft, readily available as military surplus, and put to good use by the Ham fraternity. Note the 6v input, the common car battery voltage in " the old days*").
- October meeting report. Hal, W3HFY gave a campaign speech, seeking election as Director, Atlantic Division. Bert, K3IUV gave a talk on transistorized converters. Meeting followed by coffee and doughnuts (***a Packrat tradition*).**
- Oops. A late excerpt at the end reports that Allied Radio withdrew their support for the Amateur Radio Award, citing their thinking that it should come from a collective effort by industry rather than one company.
- Activity reports. No band activity reports were published. (*I assume that was because the columnists were late*!).
- (This issue consisted of seven (7) sheets of legal-size paper, and one letter size insert (W3HFY's Campaign poster for Director). It was printed double-sided, on heavy stock paper. It was typed in double-column format by Helen Brick [editor and xyl of Frankie, W3SAO], and cost 4-cents to mail). Also note that the subscription rate for non-members was 10-cents per copy, or $1.00 per year. Remember, that included the cost of postage!!

(*As in previous editions, many "folksy"*

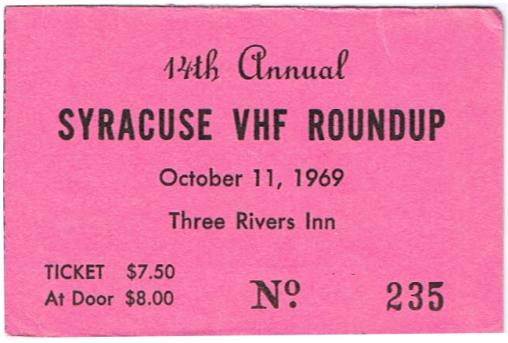
Events

For inclusion, please direct event notices to the editor.

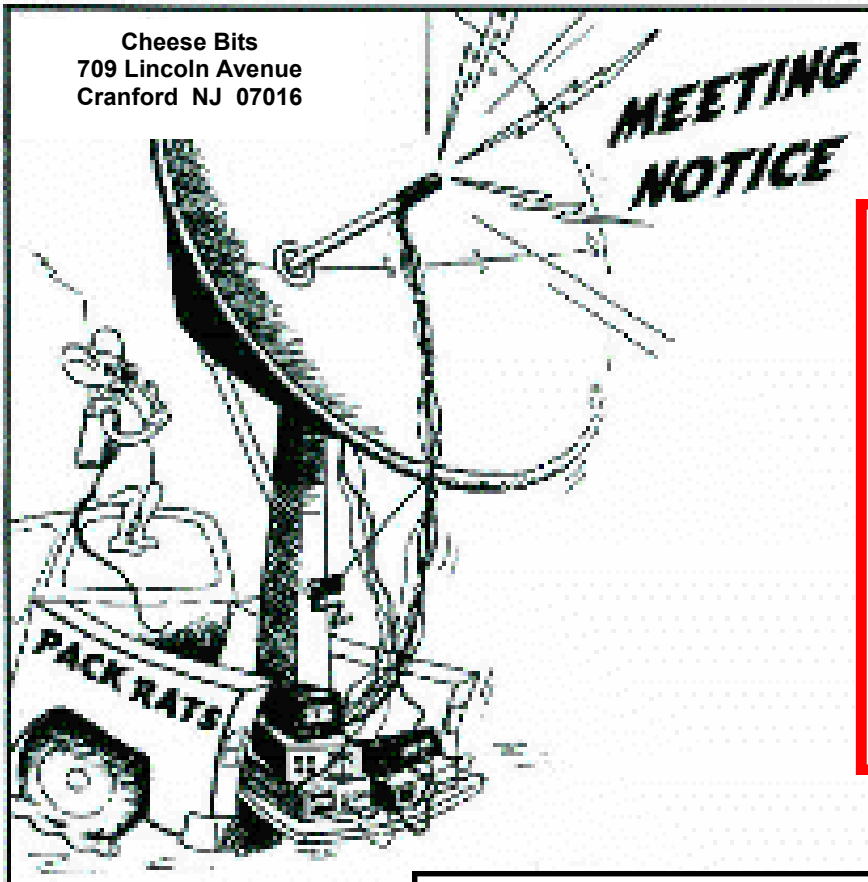
EME 50-1296 MHz Contest—October 26-27, 2013, 50-1296 MHz round 1; November 16-17, 2013, 50-1296 MHz round 2.

….Wayback cont'd

comments about members, their families, and activities were included in this Cheese Bits. If interested, visit www.W3CCX.COM and read the full issue posted there). **—-Thirty—- K3IUV, Bert**



Cheese Bits
709 Lincoln Avenue
Cranford NJ 07016



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MT. AIRY VHF RADIO CLUB, INC.