



HARMONICS

1916

South Jersey Radio Association

2013



Taking A Dose Of My Own Medicine

By Guest Contributor Dan Romanchik, KB6NU

Last week, I wrote a blog post on preventive maintenance for one of my writing clients.

Afterwards, I decided to take a dose of my own medicine and do a little preventive maintenance around the shack. I started with the Astron RS-35M, which provides the DC power that runs HF transceiver and my VHF/UHF transceiver in my shack. I had started noticing a few little things, such as the voltage adjustment being a little fussy, that I wanted to correct before the supply failed on me.

After removing the cover, I vacuumed all the dust out of the supply. The RS-35M wasn't very dirty, but even so, getting the dirt out of a piece of equipment is probably the first thing you'll want to do when performing preventive maintenance. Dirt im-

pedes air flow. That can lead to higher operating temperatures, and as the lab manager that I interviewed for my blog post said, "Heat kills."

Not only should you vacuum any dust out of a cabinet, you should also clean the fan filters, if your gear has them. Dusty filters prevent air from flowing smoothly through equipment, and that means the fans don't cool as well as they should.

Once that was done, I did a visual inspection. One thing that you want to look for are components that look like they're getting too hot. Another thing to look for is evidence of arcing. Whatever is causing the overheating or arcing will eventually cause a unit to fail. Fortunately, I found neither.

Next, I checked to see that the components mounted to the enclosure were securely screwed down. In the RS-35M, the transformer, the bridge rectifier, and an electrolytic are mounted to the enclosure. Oddly enough, the bridge rectifier was quite loose, so I tightened it down. Also loose were the output terminals. I tightened these down as well.

Finally, I squirted a little cleaner and lube into the voltage adjustment pot and worked it back and forth. That seemed to do the job. That pot now works smoothly and cleanly.

I put the cover back on, reconnected the power cable, and got back to making QSOs.

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SOUTH JERSEY RADIO ASSOCIATION

HARMONICS is published monthly and is the official news letter of the South Jersey Radio Association. The SJRA was established on June 16, 1916 and has been meeting continuously since its inception. The club has been affiliated with the American Radio Relay League since 1920.

The SJRA meets each month on the fourth Wednesday, January through September; and usually the third Wednesday, October, November and December; in one of the Meeting Room of the Gibson House at 525 East Main Street, Marlton, NJ 08053. Visitors are always welcome at our general meetings. **"Our Meetings are Smoke Free"**

SJRA operates the K2AA Repeater (145.290 - PL 91.5) located in Medford, NJ and the K2UK Repeaters (146.865 and 442.350 - PL 131.8) located in Pine Hill, NJ. The repeaters are open for use without restriction to all licensed amateur operators.

There are currently over 100 SJRA members active in most all aspects of amateur radio. Membership is by application and is subject to the approval of the Board of Directors. Club dues are currently \$30/yr. for memberships, \$22.50/yr for retired-person membership (62 plus 1 yr membership), and \$15/yr. for additional family members and student membership. Membership information is available on the K2AA Repeater or from Mary Von Lintig, KV2M, 856-772-6475

EMAIL: [sjra at sjra dot org](mailto:sjra@sjra.org) SJRA's web page www.sjra.org
 Mark O'Brien, K2AX, is the SJRA/ARRL VUCC card checker
 Joe Fisher, KC2TN, is the SJRA/ARRL WAS card checker

 ★ **Harmonics** is now available on the WEB in pdf format at: ★
 ★ <http://www.sjra.org> ★
 ★ **South Jersey ARRL Section News** is available on the WEB at: ★
 ★ <http://www.arrl.org/sections/?sect=SNJ> ★

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Programs: Kathy Edwards, KM2KME
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Ways & Means: Ray Golley, N3RG
Property: Jon Mac Millan, W2MC

Harmonics Staff:

Publisher/Editor: Ted Groke, W2TAG
 or Don Beaulieu, WA2DUE
Circulation: Mary VonLintig, KV2M;
 Jim Vecchiola, KR2T

LOCAL WEEKLY NETS

Monday	K2AA, Medford	145.290 @ 8PM
Thursday	Various Locations	28.405 @ 8PM

Harmonics Deadline

Articles submitted for the next HARMONICS will be accepted until Monday, September 9, 2013. Email: [ted.w2tag at gmail dot com](mailto:ted.w2tag@gmail.com)

SWAP SHOP - For Sale/Wanted ads are free of charge and are accepted for Amateur Radio related items only. While ads are not restricted to SJRA members, there is only limited space available and members have priority for listings. No items will be accepted for inclusion in the Swap Shop from commercial vendors or traders. All ads must be submitted at least three weeks prior to the scheduled SJRA general meeting date.

GENERAL ADVERTISING - Limited commercial advertising is accepted on a space available basis. Annual advertising rates range from \$25/yr (Min 1/8 page) to \$200/yr (Full Page). Information is available from Ken Botterbrodt, K2WB.

Meeting Minutes

Minutes of General Meeting of July 24, 2013

The meeting opened at 1932 at the Gibson house in Evesham, New Jersey. Ken, K2WB, presiding. We saluted the American flag. Minutes of the June meeting were approved as printed on a motion by N2HQL/W2RDS.

Mary, KV2M, had no new members, but announced some badges available. As historian she introduced Dom Sacca, a new member who joined in 1959, has no current call sign but intends to get relicensed.

Health and Welfare by Kathy, KM2KME - July birthday cards are out. Also, the XYL of N2CE is in a rehab hospital. Programs: July: AA3RR will do a presentation on the LARC VEC system.; August; the Joe and Ray show.

Corresponding Sec. - nothing sent. Harmonics deadline as normal.

VE team; since March we have tested 22 Techs; three generals; and one extra. Next test August 14.

Nets by John, WY2J - doing better, July average was around 10. Gordo's XYL wants his tower and antenna gone.

DX report: 9H3N, Malta from 2-5 August, QSL via JJ2NYT; 9M8Z, East Malaysia from 24 - 29 July, QSL via M0URX; D2CT, Angola till 26 July 2, QSL via CT2HPM; ES1YIV, South Cook island from 9 - 17 October, QSL via IZ0YIV; IOTA contest 27 - 28 July; New Jersey QSO party 27 - 28 July. Thanks to Jack, N2VW.

Repeaters; all are working, paperwork on Pine Hill in process, thanks to Joe KC2TN. Joe also taking club stuff orders .

Web team still updating website. Property was inventoried at Field Day. No old or new business. Ken, K2WB, reported his new 40 M antenna project is still in progress. Recess at 2005. Reopen at 2021 for program.

Board meeting of August 7, 2013

All board members were present except W2 IRA, W9QWN, and N3AVT. Ken checked in by phone.

Minutes of the June board meeting were approved on a motion by N2HQL/KM2KME. Ray, N3RG, made the treasurer's report and presented a thank you card from Sue Mullen (W2PAU'S daughter) that contained a sizable donation.

No correspondence is reported. New members by Mary, KV2M; Dom Sacco, re-joining from 1959, no current call sign, will test soon; "Just Linda" as a family member holding no call. Alan Koch, KD2ELE, tech sponsored by N3AVT; Cameron Koch, KD2ELF, tech. Second calls for badges to be picked up. As historian she presented pictures of some old stations one belonging to Gordon Kressel.

Joe, KC2TN reported the documents regarding the Pine Hill repeater had been written and awaiting signatures.

Contests; John, W2MC, reported receiving logs from KV2M for the June VHF

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HAM TECH

Vol 4 No. 8 by John - WY2J

Single And Multiband HF Wire Antennas

Part 4 of 4: Coupled Resonator Dipoles

Introduction - I am finishing up this four part series on HF Wire Antennas with an in depth look at the coupled resonator, a very useful technique for designing single feeder multiband antennas without introducing loss or element interaction. It can be deployed with wire antennas, as I showed in part 3 last month with my 40, 20,15 meter trap dipole with a 10 meter coupled resonator, or metal tubing like the Force 12 series of beams. The mechanical design of the coupled resonator wire antenna is somewhat more complex to build because the spacing between the coupled resonator elements is in the order of 1 to 3 inches for frequency ratios of 1.1 or greater. Small insulated spacers are required every 1 to 2 foot along the length of the antenna to maintain accurate spacing. See Figure 2 of HAM TECH Vol. 4 No. 7 for an example of 2 resonators. On the other side of the coin the coupled resonators are much easier to tune up since they don't interact except for a couple of special cases. The technique can also be used to build low SWR dipoles with large percentage bandwidth like are encountered on 75/80 meters.

Multiple Dipole CR Antenna - A typical 3 band CR antenna for 30, 17 and 12 meters is shown in Figure 1.

The approximate lengths of the three dipoles are given for the center of each band, however exact resonance will require some fine tuning to compensate for ground interaction with the earth, nearby buildings and end effects just like a single dipole. The nice thing is you can tune up each dipole by itself

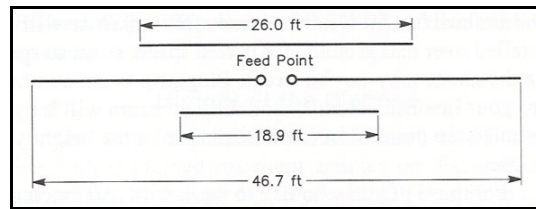


Figure 1, Configuration and Lengths of a 30, 17 and 12 M Coupled Resonator Dipole Antenna.

and leave it alone. The lowest frequency dipole must be center fed. This antenna will not work if you feed the 17 or 12 meter dipoles.

The impedance of the 30 meter dipole will be 73 ohms for a free space antenna and drop closer to 50 ohms as the antenna drops to fractional wavelength heights above the earth. It is just like a single dipole. The impedance of the 17 and 12 meter dipoles is set by the spacing between it and the fed dipole. There are two variables to determine spacing, the diameter of the resonators and the resonant frequency ratio. For resonant frequency ratios greater than about 1.4 to 1 the spacing remains constant as the ratio increases. There are some exceptions to this near odd integer ratios like 3 and 5 to 1. There is more on this later.

The spacing equations for the coupled resonator are covered in recent issues of the ARRL Antenna Handbook. K9AY who has written on this antenna has reduced the equations to an easy to use chart for 50 ohms impedance and commonly used conductor sizes. It is given in Figure 2.

For our 3 band example built with No. 14 gauge wire the spacing is close to 1.25 inches. for both elements relative to the 30

(Continued on page 5)

(Ham Tech from page 4)

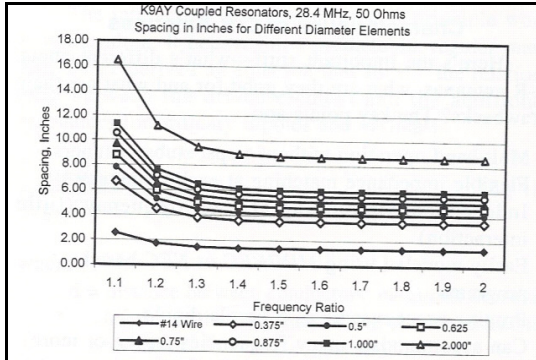


Figure 2, Element Spacing for 50 Ohm Impedance in Coupled Resonators Dipoles.

meter fed dipole. If you build it from 1 inch diameter tubing for a beam the spacing climbs to about 6 inches. I build my 10 meter coupled resonator with a 15 meter fed dipole and used No. 14 gauge stranded bare copper wire. The spacing was 1.25 inch and the simulated SWR was as shown in Figure 3. SWR measurements were also made and were in close agreement to Figure 3.

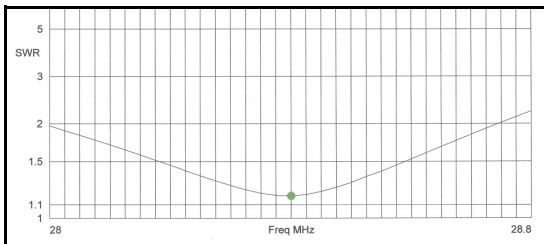


Figure 3, SWR for the WY2J 10 meter Coupled Resonator wire dipole.

The SWR bandwidth is typically 35 percent narrower than that of a center fed half wave dipole. This is due to additional capacitive loading on the coupled dipole. For our 30, 17 and 12 meter application this is not important because all of these bands are extremely narrow percentage wise. The 30 meter band is the widest and only about 1

percent bandwidth.

If you build a pair of coupled resonators at 40 and 15 meters you run into one of those special cases I mentioned where the frequency ratio is nearly 3 to 1. You may remember that a 40 meter dipole has a third harmonic resonance at 15 meters. For this case the 40 meter dipole is radiating energy when driven with a 21 MHz source. The coupled resonator is also radiating at this frequency. The net effect of the two radiators is a narrower main lobe and power gain. It is a useful antenna. The free space azimuth plot for it is given in Fig. 4 below. Note that the gain is 5.8 dBi or 3.6 dB above a dipole. If the gain from the ground reflection is added the total power gain is typically almost 11 dBi or 8.8 dBd. The 4 sidelobes are due to the third harmonic action of the 40 meter dipole. The slightly lower gain in the one mainlobe is due to non-optimum phasing between the two resonators.

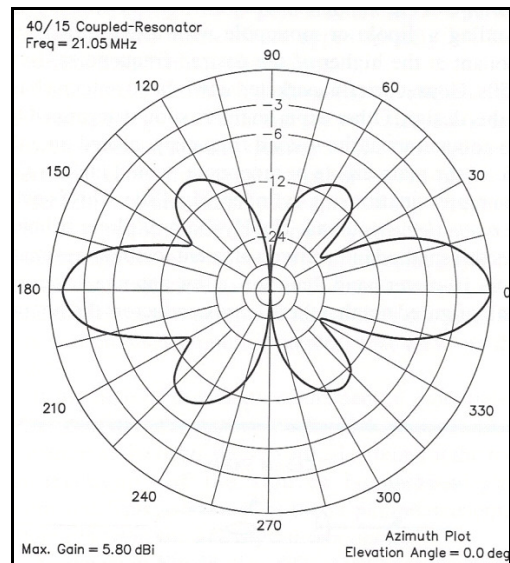


Figure 4, Free Space Azimuth Plot for a 40/15 Meter Coupled Resonator Dipoles

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South Jersey Radio Association Leaps into the Twenty First Century – Part 9

“Men may come and men may go, but I go on forever.” I think someone famous said this about a river or something like that. Radio clubs come and go but SJRA goes on forever.

2000

Our leaders to start off the 21st century were:

President - Rich Kloidt, KD2KS (now N1RK)

Vice President - Pat Doyle, KD2P

Treasurer - Ed Baud (great name for amateur radio), N2YAJ

Rec. Sec - Betty Williams, KC2BFN

Cor. Sec. - Frances Widmann, WA2NBE

Directors

Bob Applegate, K2UT

Tony Asselta, KB2JJW

Ken Botterbrodt, K2WB

Joe Cramer, N2XYZ

Bruce Eichmann, W2BE

Rick Faust, N2RF

Phil Levin, W2GE

SJRA survived Y2K.

SJRA members represented 19 out of the 32 entries in the SNJ section for the January VHF contest. Joe Taylor - K1JT took first place in the SNJ section and Bob Turner - N2SCJ placed second. Our club finished 6th in the medium club category.

Jim, KR2T, will be managing and improving the SJRA Web page.

As of January 2000, there were 181 members.

Bob, K2UT, wrote a series on Setting up the New Station. I know articles like the ones he wrote are most helpful to new hams.

During January of this new millennium Jamie Wright - KC2FWC, at age 9 became a member of SJRA. She holds a Tech Plus license and is the daughter of Carol Wright, KK2CW, and Randy Wright, KX2CW,. Young people like Jamie are indeed the leaders of the 21st century.

Tony Slapkowski, WB2MTU/K4AWS, one of our former presidents became SK

Adam Fletcher, KC2CAP, took over as Circulation Manager for Harmonics. He was the youngest person to have that 'job.'

As of April, SJRA increased its membership to 199.

The June 2000 elections saw some changes in our officers and directors.

President - Ed Baud (still great name for amateur radio), N2YAJ

Vice President - Pat Doyle, KD2P

Treasurer - Lou Priestley, N2HQL

Rec. Sec. - Betty Williams, KC2BFN

Cor. Sec. - Frances Widmann, WA2NBE

Directors

Phil Levin, W2GE

Tony Asselta, KA2JJW

Ed Fletcher, N2ZPR

Carol Hutkin, K2BL

Jon MacMillan, W2MC

Mike Fishbach, KB2RHI

Jeff Beigie, KU4SX

Field Day 2000 was at a new location. Ken, K2WB, obtained the new site in Marlton, off of Tuckerton Road by the Soccer Field Complex. The K2AA team placed second in the 6A category with 10,576 points.

(Continued on page 7)

(SJRA Leaps from page 6)

Here is some interesting Field Day trivia. SJRA started doing Field Day in 1940. Some of our Field Day sites were Route 73 Farm in Marlton, Burlington County and John Ossi Vo/Tech Schools, Pennsauken High School, Knights Park in Collingswood, and Medford Water Tower.

Jim, KR2T, is still holding classes for amateur radio - Technician class.

Stamps were 33 cents.

For the first time in fifty years we did not have a Hamfest.

Chris Cannatella, KC2GNQ, and Rick Stoneking, W2RDS, joined SJRA.

Miles Brown (Brownie), W2PAU, (SK) and Joe MacMillan, W2FGY, (SK) received the QCWA 65 year award for being licensed over 65 years.

Ken, K2WB has yet another call, JF9IXC, is his personal call when he visits Japan regularly on business. I think Ken is eligible for the *Most Call Signs Award*.

Since this article is one of the 'Leap Year Specials', here is some interesting stuff about leap years:

Leap years come every year that is divisible by 4 except years that are divisible by 100 such as 1900, 2100, 2200, 2300. These years are not leap years. Now the exception to the exception. Years that are divisible by 400 are leap years such as 1600, 2000, 2400. I think my brain exploded after that one.

Our club was born on a leap year, celebrated the first leap year of the millennium, and will turn 100 years old during a leap year. Yes, we are leaps and bounds above all the rest.

73 all and I am History, Mary, KV2M

President's Message

Ken - K2WB

The summer is going to be over well before we know it. Field Day 2013 is over and good memory. Some of us are already we are looking forward to Field Day 2014.

As the summer draws to a close, you should look carefully at your antenna farm and it may be time to start planning on any improvements or repairs that could be done while the weather is still pretty good.

While working on your projects always think of safety and get assistance for big jobs. Use the right tool for the right job and never climb a tower without the spotters and ground help.

Bring a friend to a meeting, SJRA meetings are a great night out, we even offer great programs to keep you entertained. Let Mario, N2AK, know if you can join us for dinner at Tarantella's restaurant the following the group to the meeting at the Gibson house in Marlton. Also, we are still having a membership drive and you can earn a free one year membership, contact Mary, KV2M, for details. We have 120 members and growing... Let's see if we can get to 200!

Special thanks to the W2PAU estate and family for a very generous donation to the SJRA.

If you have any ideas or projects that you would like to see the club get involved with, contact any board member or club officer.

As the Board of Directors and officers start their next term. We are looking for help, from the members. We need help in the following areas: Program Chairperson,
(Continued on page 10)

Not a State Possessions

The United States has nine Possessions – Howland Island, Baker Island, Jarvis Island, Navassa Island, Johnston Island, Midway Atolls, Palmyra Atoll, Wake Islands, and Kingman Reef. United States Possessions have the lowest legal and political status because they do not have permanent populations and do not seek self-determination and autonomy. The Motto of all our Possessions is ‘In God We Trust.’ The Anthem is ‘The Star Spangled Banner.’

Part 1 – Howland, Baker, and Jarvis Islands

Howland, Baker, and Jarvis Islands are managed by the United States Fish and Wildlife Service and are visited every two years by same. All three islands are Natural Wildlife Refuges and public entry is by special permit only and generally restricted to scientists and educators. These islands are uninhabited and have no fresh water supply. There are no harbors or docks, however, each island has a small boat landing place. Howland, Baker and Jarvis Islands were claimed by the United States under the Guano (bird poop) Islands Act of 1856. Guano is a Spanish word that comes from the Inca Indian word ‘waru’ – accumulated excrement from birds. All three were used as weather stations and military outposts during WW II. Several trips to the Howland, Baker and Jarvis Islands have been conducted through coordination with ham radio operators who have been allowed to transmit. As part of their permit, they must transport at least one refuge staff member to monitor their activities.

Howland Island

Howland Island is located just north of

the equator in the central Pacific Ocean about halfway between Hawaii and Australia.

Howland Island was discovered by US Captain George Worth on a whaling ship. He named it Worth Island. On 9 September 1842, the island was sighted again by US Captain Netcher and renamed Howland Island in honor of the ship’s lookout Mr. Howland. I guess that if you really are paying attention to your surroundings, you might get something named after you. The highest point is about three meters above sea level. The United States claims an Exclusive Economic Zone of 200 nautical miles and a territorial sea of twelve nautical miles around the island. Since Howland Island as well as Baker Island is uninhabited, there is no specified time zone. They are within a nautical time zone that is 12 hours behind UTC – (UTC-12). Howland and Baker Islands are the last part of the United States to ring in the New Year. They are 24 hours behind the Wake Island Time Zone. Howland Island’s claim to fame is the Amelia Earhart tragedy. On 2 July 1937 Amelia Earhart left Lae, New Guinea and headed for Howland Island. She was never seen again. One theory is that Amelia missed the island because her receiving antenna on the belly of her plane was damaged or had been separated from the plane upon take off from New Guinea. Her transmitting antenna (a loop antenna on top of the plane) was still intact so she could transmit but not receive from the naval ships waiting for her. Her transmitting and receiving antenna were not the same one, as they normally would be – even if the transmitting and receiving frequencies are not the same.

(Continued on page 11)

Monthly Puzzle

Don – WA2DUE, wa2due at arrl dot net

Last month we posed the following:

There is a tuned circuit consisting of a coil, a fixed capacitor and a variable capacitor. All these elements are in parallel. This circuit tunes from 1737 to 2005 kilo-Hertz. The fixed capacitor is 200 pico-Farads and the variable capacitor ranges from 10 to 80 picoFarads. What is the inductance of the coil?

Solution: Using the equation for resonance $f^2 = 1/(4\pi^2 LC)$ we see that the larger the capacitance the lower the frequency. So with a C of (200 + 80) pico-Farads and the frequency of 1737 kilo-Hertz we get an inductance of 30 micro-Henries.

The national debt is over 16 trillion dollars. If you were to receive one thousandth of one percent of this amount, how much money would you have?

Solution: One thousandth of a trillionth is a billionth and one percent of that is 10 million. Therefore you would end up with the tidy sum of 160 million dollars. Not too bad!

Mary, KV2M submitted her solution to one of the puzzles. Thank you Mary.

Now for August, and since July was so warm I propose these easy puzzles:

A disk with a radius of $3/\pi$ inches rotates a $1/2$ inch per second. Determine how many revolutions per minute (RPM) it rotates?

If $-x/2 + 0.6(x + 5) = 4.4$ what is the value of x?

Please submit solutions and/or comments to wa2due at arrl.net.

The SJRA would like to congratulate the following on their recent ham radio licensing accomplishments.

Session date: 07/10/2013

Alan Koch, KD2ELE
50 West Euclid Ave,
Haddonfield, NJ 08033
Passed his Technician Exam

Cameron Koch, KD2ELF
50 West Euclid Ave,
Haddonfield, NJ 08033
Passed his Technician Exam

Charles E. Shearer, KC3AYW
222 Azalea Ct.
Glen Mills, PA 19342
Passed his Technician Exam

Alfred Chai, KD2ELG
325 Lincoln Ave
Mt Ephraim, NJ 08059
Passed his Technician Exam

Charles A. Wilkins JR, KD2EHD
404 Bradford Rd.
Cherry Hill, NJ 08034
Passed his General Exam

David Staiman, KD2DVV
43 Mitchell Court
Marlton, NJ 08053
Passed his General Exam

Michael H McDowell, KC2UUG
447 Manor Ave
Millville, NJ 08332
Passed his Extra Exam

The Year to Date New license or upgrade totals are:

	Tech	General	Extra
YTD	22	3	1

(President's Message from page 7)

Estate Liquidation, Web Site Contributors and more. This is your radio club and we need your help. If interested contact me.

The web site has evolved and we have to thank James, KC2LRM; Tim, KC2YAR; Ira, W2IRA; Rich, KV2R; and Bob, N2CSJ. The team has done a fantastic job bring the website to its current state.

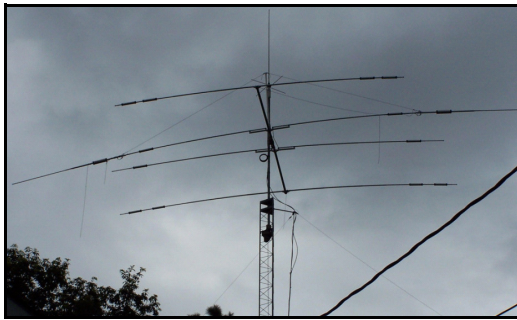
Enjoy the rest of the summer and I hope to see you on the air soon

(My Own Medicine from page 1)

It should be good for another couple of years.

••••• *When he's not keeping the gear in his shack in tip-top shape, Dan, KB6NU enjoys working CW on the HF bands and teaching ham radio classes. For more information about his operating activities and his "No-Nonsense" series of amateur radio license study guides, go to www.KB6NU.Com or e-mail [cwgeek](mailto:cwgeek@kb6nu.com) at kb6nu.com.*

N2YU (SK) BEAM & TOWER SALE



- Hi-Gain HG-54HD 54 ft Crank Up Self Supporting Galvanized Steel Tower
- Hi-Gain HDR-300 In Tower Rotator
- Mosley Tri-Bander + 40 M Dipole
- 2 M Vertical Ground Plane
- ICOM IC-775 200 W HF Transceiver
- For Site Visit, Pricing and T&C Call Tom Skorup 610-517-7360 Evenings
- More Items at SJRA Estate Auction

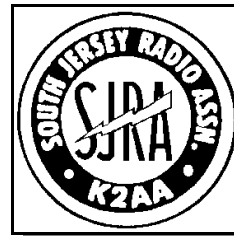
(Ham Tech from page 5)


That winds up my four part series on simple wire antennas, many of which are encountered in Ham Radio. I hope you have gained an understanding of what each can do and not do in quantitative terms. There is enough information for most to allow building them. If you never build and antenna from scratch, give it a try with a simple half wave, measure the SWR, then tune it up and measure it again. If you have questions e-mail me at wy2j@arrl.net for an answer.

This concludes the third year of HAM TECH and after 36 issues I need to put together a detailed Table of Contents. It will appear next month instead of the usual column and will be for your use and mine. Take a moment to review what I have covered in the past three years and e-mail me your ideas on what you would like to see in the fourth year of HAM TECH. I look forward to hearing from you.

List Your "For Sale" Ham Stuff in the SJRA Harmonics

Email Ted, W2TAG, with your listing,
ted.w2tag@gmail.com



<p><i>(Meeting Minutes from page 3)</i> contest and the Georgia QSO party. September VHF on 13 and 14.</p> <p>Programs by KM2KME; August is the Joe and Ray show: September is member auction: October is homebrew adding to the transmitter kit. We are up to 120 members . There are we problems with the website team.</p>	<p>Old business Mary reports 183.22 and 100th anniversary fund. We expect involvement in the JOTA this year, it will be done at the waterfront on October 19 and 20.</p> <div style="text-align: center;">  </div>
<p><i>(Continued from page 8)</i> Baker Island</p> <p>Baker Island is located just north of the equator in the central Pacific Ocean halfway between Hawaii and Australia. Howland Island is its nearest neighbor about 42 miles to the north.</p> <p>Baker Island was discovered by US Captain Folger of the whaling ship Equator. It was named New Nantucket Island. During August 1825 the island was resighted by the US Captain Starbuck. During 1832 it was renamed Baker Island by Captain Michael Baker - imagine that. Baker Island was captured by the Japanese in 1942 and recaptured by the United States in 1944. LORAN station Baker was a radio operations base that was in operation from September 1944 until July 1946. Its station unit number was 91 and the radio call was NRN-1.</p> <p>Jarvis Island</p>	<p>Jarvis Island is located about 25 miles south of the equator in the South Pacific Ocean about halfway between Hawaii and the Cook Islands. Jarvis Island was discovered on 21 August 1821 by United Kingdom captain Brown who named it Jarvis Island for the owner of the vessel. From 1 July 1957 to 31 December 1958 it was occupied by the United States during International Geophysical Year (IGY). The highest point on the island is 7 meters above sea level. The time zone for Jarvis Island is UTC-11 or Pacific/Johnston Time.</p> <p>This has begun the Possessions of the United States. There are six more Possessions to follow and after that Compacts of Free Association and others.</p> <p>73 from the State of New Jersey - the QTH of SJRA, the oldest continually operating radio club in the United States and the best.</p> <p style="text-align: right;">Mary, KV2M</p>

Amateur Radio FCC License Testing

The SJRA sponsors *FREE* Amateur Radio FCC License testing on the second Wednesday of each month. The location is: 443 Commerce Lane, Suite 5, West Berlin, NJ 08091. Registration is at 7:00 PM and testing begins at 7:30PM. Walk-ins are accepted.

VE team members can be reached at VE@SJRA.org. A calendar and more information can be found on the SJRA web site.

August Meeting
Fourth Wednesday

August 28, 2013

“Our Meetings are Smoke Free”

The meeting commences promptly at 7:30PM in the first floor Meeting Room of the Gibson House on Main Street, Marlton, NJ 08053. Guests are always welcome.

Program For August:

Our program for August will be presented by Joe Fisher, KC2TN, and Ray Golley, N3RG. They will be speaking about Weak Signal Operations.

August 2013 Health and Welfare:

Happy Birthday to the following: 3- Debbie Pullaro, W9QWN; 9- Michael Flaherty, KC2PST; 18- Ricky Stoneking, W2RDS; 27- Lou Priestley, N2HQL; 28- Jim Higgins, KC2SZ.

Kathy Edwards, KM2KME

First Class Mail

South Jersey Radio Association
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