DELAWARE LEHIGH AMATEUR RADIO CLUB Inc.

JUNE 2016

W3OK CORRAL

Club Meeting June 2nd, 7:30PM At the Bethlehem Township Community Center

JUNE MEETING PROGRAM

“Radio In The Dissapearence Of Amelia Earhart”
Brian / KN4R

“The Route of Columbus”
Dick / KB3ALG

MINUTES FROM THE MAY MEETING

A general membership meeting of the Delaware-Lehigh Amateur Radio Club Inc. (the Club) was held on May 5, 2016, at the Bethlehem Township Community Center located in Bethlehem Township, Pennsylvania.

Call to Order: Bill / W3MJ President, called the meeting to order at 1930 hrs.

Pledge of Allegiance: Led by Bill / W3MJ.

Member Happenings: Pete / KC3EVL said he was able to grab the slow scan TV signal on 2M from the International Space Station. Mark / W2MB showed a DMR HT which can be obtained at a very reasonable price on EBAY and added that there is DMR repeater in Allentown. Victor / W3NKD said he has a 6 UHF Yagis for sale. Al / W3CE has Club patches for $3.00.

Approval of the Minutes: Larry / AB3TY asked if there were any additions or corrections to the minutes as they appeared in the last newsletter. Bill / W3MJ asked for a motion to approve the minutes of the last meeting.

Motion: It was moved by Mark / W2MB, second by Jay / N3OW. **Motion carried.**

Treasurer's Report: Mike / KB3LOD presented the Treasurer's Report for March. Bill / W3MJ asked for a motion to accept the report as read.

Motion: It was moved by Dave / NB3R, second by George / N3SQD. **Motion carried.**

Club Station: No issues were reported.

Club Repeater: No issues were reported.

Website: No issues were reported.

Club Newsletter: Bill / W3MJ related that Don / KC3II, the Newsletter editor, has requested articles concerning amateur radio. Don added that old Club photos would be great. A discussion ensued concerning Club photos that have passed through various hands and have been lost. George / N3SQD said that he was in possession of Club memorabilia and asked for a Club member to act as Club archivist.

National Parks On The Air: Mark / W2MB said plans were moving ahead for June 4 with a rain date of June 5, Delaware Recreation area at the Water Gap in Bushkill, PA One radio will be used with the Club call. Members should bring their own chair and food.

Club Trips: Doreen / K3PDL announced a trip to the Sussex County Fair grounds for the Hamfest on July 17. A signup list is available. Also, there are possibilities for trips to see The Blue Angels at the Pocono Raceway Aug 26-28 and tour the Sarnoff Library in September.

Field Day: Barry / KU3X will be Field Day chairman. Dave / NB3R will be in charge of equipment. Jo Ann / ND3JJ (New Call) will be in charge of food. Field Day will be held on June 24-25 at Louise Moore Park, Pavilion 5.

Pete's Corner: Pete / NL7XM presented his book of interest. This month's pick is *Hello Everybody* by Anthony Rudel.

Bob / NE2C: Mark / W2MB said that Bob was recovering from a medical procedure.

ARES and RACES: George / N3SQD requested ARES and RACES members update their information. Forms were provided.

Membership Report: Frank / W3WOW said the Club has 188 members. He announced the following new members, James Lees / W3NKD, Maurice Heller / KC3AVX, and William Snyder / KC3GZP. Bill / W3MJ. Asked for a motion to accept the new members.

Motion: It was moved by Frank / W3WOW, second by Jay / N3OW. **Motion carried.**

V.E. Sessions: Friday May 6 and May 10 at the 911 center at 7 pm. A V.E. Session will be held at Field Day.

Visitors: Pete/ KB3YKJ, Joe / KC2SFB, and Annmarie / KB3YJY.

MS 150 City to Shore Bike Tour: Joe Di Bartolo / KC2SFB explained the way the communications are implemented and the need for operators. The event is September 24-25. Pamphlets were provided with instructions for volunteers.

Adjournment: There being no further business before the Club, the meeting adjourned the meeting at 2030 hrs.

Respectfully submitted by Larry / AB3TY, Secretary

Silent Key

The D.L.A.R.C. Wishes to honor and to express its sadness at the passing of a club member or former club member.

Lamar Derk / N3AT

NEW MEMBERS

The DLARC is continuing to grow, so be sure to greet our new members, shake their hands, and give them a warm welcome to our club. The newest members are James Lees / W3NKD, Maurice Heller / KC3AVX and William Snyder / KC3GZP.

VE TEST SESSION

There will not be a test session this month. The next test session will be July 8th at 7 PM at the Northampton County 911 center. Pretest registration is required. Contact George / N3SQD at george@bioserv.com or Al / W3CE at w3ce@arrl.net

JUNE QUICK CHECK CALENDAR

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1 DLARC Net (KC3II)	2 DL ARC MEETING 7:30 PM	3 NO VE SESSION	4
5	6	7	18DLARC Net (N3SQD)	9	10	11
12	13	14 FLAG DAY	15 DLARC Net (KB3CTX)	16	17	18
19 Father's Day	20 First Day of Summer	21	22 DLARC Net (K3PDL)	23 DLARC BOARD MEETING	24	25 ARRL FIELD DAY
26 ARRL FIELD DAY	27	28	29 DLARC Net (KB3WYJ)	30		

JUNE CONTESTING AT THE OK CORRAL

June 4 & 5 – Dutch Kingdom Contest
-- UKSMG Summer Contest
June 11 & 12 – CA CW WWSA CW DX Contest
-- REF DDFM 6 mtr Contest
June 18 & 19 – All Asian DX Contest - CW
-- Ukrainian DX Classic RTTY Conest
June 28 & 29 – RSGB 80 mtr Club Championship - SSB
-- ARRL Field Day

FIRST-EVER D-STAR SATELLITE TO LAUNCH

The first-ever satellite to carry a D-STAR (Digital Smart Technologies for Amateur Radio) Amateur Radio payload into space is expected to launch on April 22 from Guiana. The OUFTI-1 (Orbital Utility For Telecommunication Innovations) CubeSat is one of three CubeSats developed by student teams under the European Space Agency (ESA) Education Office "Fly Your Satellite!" program, which is aimed at training the next generation of aerospace professionals. The satellites arrived in South America on March 25, followed by the student teams a few days later.

On March 30 the students pulled the "Remove Before Flight" pins and successfully verified that their CubeSats were ready for launch before replacing the access ports on the P-POD, which will secure the CubeSats prior to and during launch and then will release them into orbit. The next time the students will have contact with their respective CubeSats will be through their spacecraft's communication link, after the CubeSats have been deployed into orbit. Once thermal-optical tape has been applied to the P-POD to shield the CubeSats from extreme thermal radiation during the launch phase, the P-POD will be integrated with the Soyuz launch vehicle.

Constructed by students at the University of Liege in Belgium (ULg), OUFTI-1 will be the first satellite to carry an Amateur Radio D-STAR transponder. Developed by the Japan Amateur Radio League, D-STAR enables the simultaneous transmission of voice and digital data as well as call sign-based roaming via the Internet.

"The OUFTI-1 D-STAR repeater will be available either as a direct communication repeater between two users, and as an extension of the ULg D-STAR repeater," explains the article "D-STAR digital amateur communications in space with OUFTI-1 CubeSat" by Jonathan Pisane, ON7JPD; Amandine Denis, ON4EYA, and Jacques Verly, ON9CWD, all of ULg. The CubeSat's frequencies are 145.950 MHz (FSK AX.25), and D-STAR down, with an uplink at 435.045 MHz. OUFTI-1 will carry a CW beacon transmitting on 145.980 MHz.

The other two CubeSats are from Italy and Denmark. The CubeSat e-st@r-II from the Polytechnic University of Turin, Italy, will demonstrate an attitude control system using measurements of Earth's magnetic field. It will transmit CW and 1.2 k AFSK on 437.485 MHz. AAUSAT4 from the University of Aalborg, Denmark, will operate an automated ocean vessel identification system. It will transmit on 437.425 MHz.

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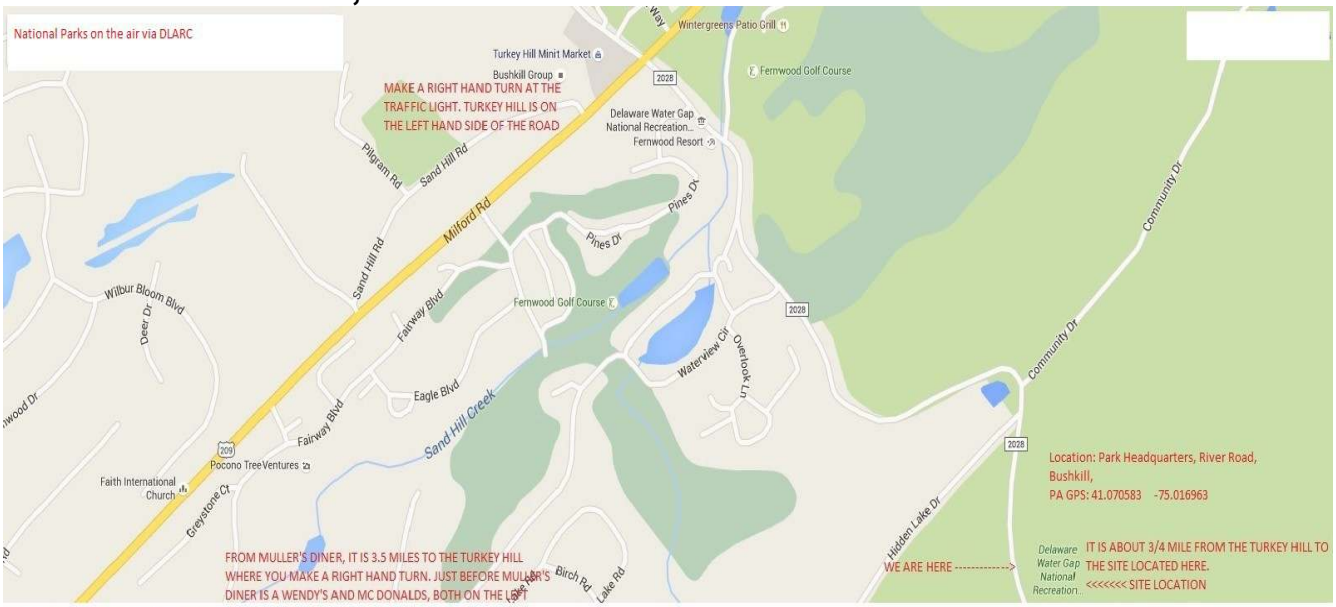
The DLARC's National Parks on the Air activation of the Delaware Water Gap National Recreation Area

Date: June 4, 2016 (Rain date June 5, 2016)
Time: 9AM - 5PM
Location: Park Headquarters, River Road, Bushkill, PA
GPS: 41.070583 -75.016963
One Transmitter and antenna will be in operation, bring your own chairs, food etc. for a fun filled afternoon.



Take route 33 north to route 80 east. Exit to route 209 north. Going north on route 209, continue north, through Marshells Creek, until you see a Mc Donalds and a Wendy's on your left. Passing both you will see Muller's Diner on your right. From that point it is 3.5 miles until you come to a traffic light where Turkey Hill is on your left. At that light make a right hand turn. 3/4 miles in on the left will be the site

FIELD DAY 2016

ARRL Field Day is the single most popular on-the-air event held annually in the US and Canada. Each year over 35,000 amateurs gather with their clubs, friends or simply by themselves to operate.

ARRL Field Day is not a fully adjudicated contest, which explains much of its popularity. It is a time where many aspects of Amateur Radio come together to highlight our many roles. While some will treat it as a contest, most groups use the opportunity to practice their emergency response capabilities. It is an excellent opportunity to demonstrate Amateur Radio to local elected community leaders, key individuals with the organizations that Amateur Radio might serve in an emergency, as well as the general public. For many clubs, ARRL Field Day is one of the highlights of their annual calendar.

The 2016 Field Day will be held on the week end of June 25th and 26th At the Louise Moore Park in Bethlehem Township. The DLARC will be located in Pavilion #5 which is located on the east side of Country Club Road. The same location as last years picnic and Field Day.

Barry / KU3X is chairman of this event and will be looking for volunteers to help with all phases of the event. A sheet will be at the June meeting for signing up. Help is needed with setting up, taking down and also putting together the food and drink. Dave / NB3R is handling Operations and Jo Ann ND3JJ is handling the food. Help is needed for all divisions of this event.

A VE test session will also be held, beginning at 1 PM

CMARC 2016 HAMFEST
******* 26th ANNUAL *******
BLOOMSBURG HAMFEST
SATURDAY - JUNE 11, 2016
7AM – 1PM
Lime Ridge Community Center
6405 4th Street (Old Berwick Road), Lime Ridge, PA
SPONSORED BY THE COLUMBIA - MONTOUR AMATEUR RADIO CLUB
www.qsl.net/cm-arc

CALLING ALL HAMS
Interested in a fun event for a good cause?
Looking for a public service event to show off your communications expertise?
Look no longer!
Volunteer for the BIKE MS: 2016 CITY TO SHORE
SEPTEMBER 24th and 25th

Positions include: Route Support, SAG and truck drivers, Rest Areas, Clerks, Road Marshals and General Volunteers.
The ride starts in Cherry Hill, NJ and ends up in Ocean City, NJ but bicyclists need your support all along the route.volunteer locations include Cherry Hill, Hammonton, Egg Harbor City, Waterford, Mays Landing, Ocean City and Egg Harbor Township.

INFORMATION
Email: MS.EVENTCOMMUNICATIONS@Yahoo.com
N3MSS@Mail.com
Phone: 1-609-316-8220
MS EVENT COMMUNICATIONS
128 Stoneham Drive
Glassboro, NJ 08028

Anyone wanting the Communications Packet about the run is welcome to a copy, simply by emailing a request to ke3aw@arrl.net

MAY PROGRAM REPORT

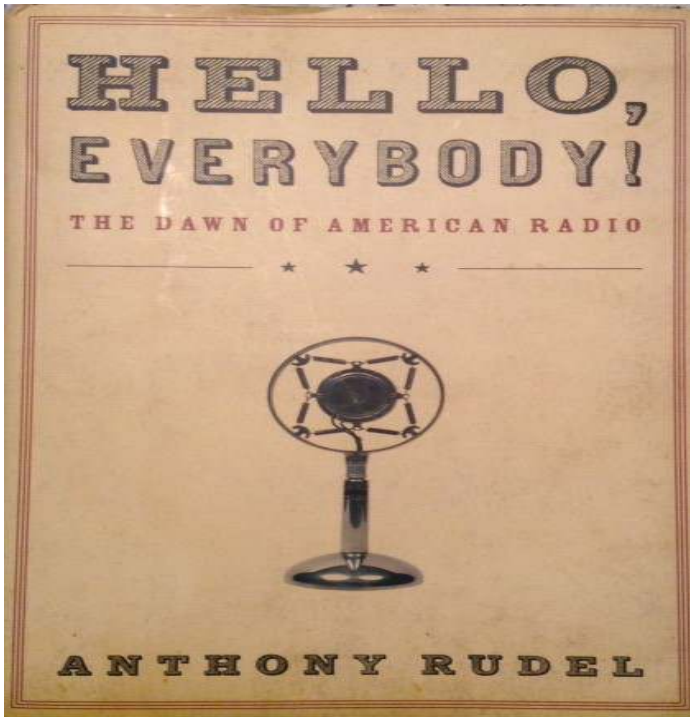
The title of the program may confuse the reader at first, but it is actually a modern-day saga of three men against the Atlantic Ocean in a 36 foot sailboat. The 3 Amigos, as they refer to themselves, who made the trip, were Juan, ship owner, Bucky, the navigator and Dick / KB3ALG, the repairemand and also a licenesed captain. Who was the narrator of this tale.

Beginning with a short description of the boat, a llisting of safety equipment carried, and navigation necessities, Dick took us to sea. He explained how using a sexant, they were able to plot their position on their charts. Included in the handout was various log listings and position reports. Also explained how the maintained personal safety while facing the various weather conditions. Explained also how they carried water and other foods for their survival. And also how they never threw any garbage or items of this nature into the ocean. They compacted and returned all to shore upon the return.

They carried a 20 m transceiver, which they used to check in every third day to the Transatlantic Net and also with Rick / W3BI, for safety and communications back with. Easton.

Dick finished with the question and answer session, of which there were many questions.

PETE'S BOOK OF THE MONTH FOR JUNE



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ADVANCE PRAISE FOR HELLO, EVERYBODY!

"One of the many reasons I love radio is its tolerance for eccentricity. What I learned from *Hello, Everybody!* is the origin of this eccentricity: It turns out that American radio is descended from wonderful, oddball radio pioneers of all shapes and sizes, a group who contributed mightily to the rich texture of the medium. Rudel is much more than a radio aficionado, he is a master storyteller." —David Brancaccio, host, *NOW on PBS*

★ ★ ★

"*Hello, Everybody!* is a fascinating book, full of compelling stories about the magical and now ubiquitous medium of radio; it is rich in insight and shows a deep appreciation for how radio has changed the political and cultural landscape of our country. Tony Rudel is a wonderful storyteller—you won't be able to put this book down."

—Laura Walker, president and CEO of WNYC Radio

TOWER GOING UP

I've attached a few pictures of a tower install at club member Ed's AA3OU house on Saturday 4/16. Assisting were club members Dave N3LWY and Mark W2MB.

de Mark W2MB

MONTHLY BRAIN TEASER

"A special prize awaits the first Club Member to submit the correct answer to this month's Brainteaser to the Pete / NL7XM, *only,* at nl7xm@arrl.net The winner must be present at the next Meeting to receive it, or it goes unrewarded. Officers, Board members, Newsletter staff, and Brain Teaser Authors are not eligible to win."

de Pete / NL7XM

MAY BRAINTEASER ANSWER

The German

Winner – **Don / N0VGA**

JUNE BRAINTEASER

Most Unusual Paragraph How quickly can you find out what is unusual about this paragraph? It looks so ordinary that you would think that nothing was wrong with it and in fact, nothing is. But it is unusual. Why? If you study it may dawn on you, but you still may not find anything odd. You should do it without any coaching. No doubt if you work at it for long, you might find out. I don't know. Now, go to work and try your luck. Stay cool.

MULTI-RANGE VERTICAL ANTENNAS

Igor Grigorov / RK3ZK

A combined three-band antenna

Three band antenna fundamentals: At a lack of the place for installation of a separate vertical antenna for each of three upper HF ranges it is possible to use a combined three-band antenna that works at the ranges itself. **Figure 1** shows schematic of a combined three-band antenna.

Figure 1 A combined three-band antenna

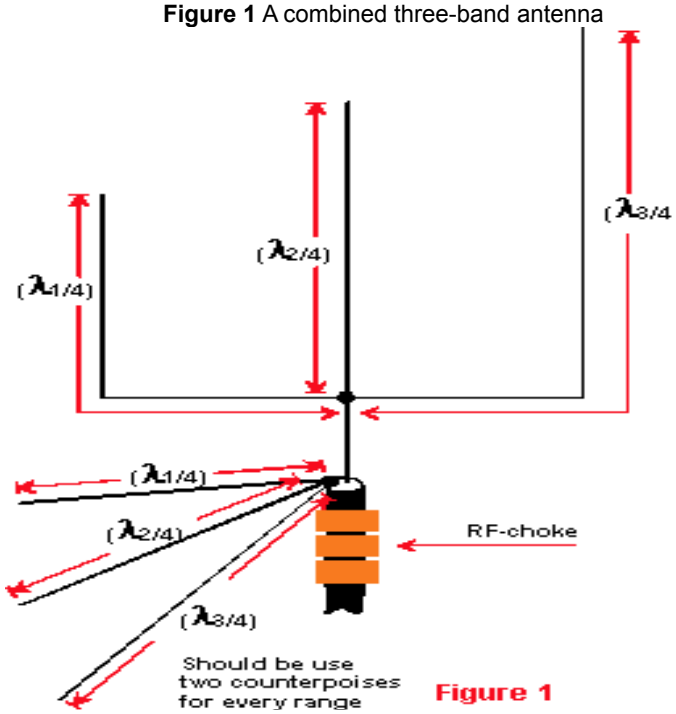


Figure 1

Table 1

6m	10m	15m
10m	15m	20m
12m	17m	30m
15m	20m	40m
15m	17m	20m
20m	30m	40m
30m	40m	80m
40m	80m	160m

The antenna consists of from three quarter-wave verticals that are resonated for each of working ranges. The verticals are connected in the bottom together. Two quarter-wave counterpoises should be use for each operation range of the antenna A coaxial cable with 50-Ohm characteristic impedance will do well for the antenna. A coaxial cable with 75-Ohm characteristic impedance also would be work with the antenna, but a SWR in the coax will be higher compare to 50-Ohm coaxial cable. **Table 1** shows the combination of ranges where a mutual influence of vibrators against each other is minimum.

Design of the Antenna:

Three various designs of the three- range antenna are shown below. **Figure 2** shows a simple design suitable for 6 - to 15-M. The three vibrators are placed on a small distance from each other. The distances between the vibrators are fixed with the help of small plastic insulators. The design has very strong mutual influence for every vibrator against each other.

Figure 2 Simple design of a three ranges antenna

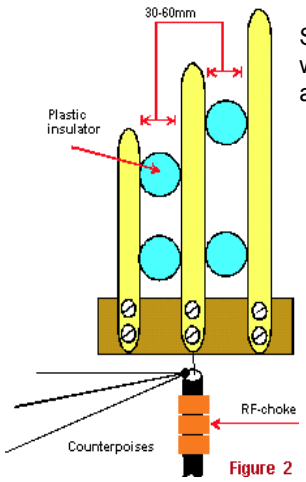


Figure 2

Figure 3 shows a simple design suitable for 6 - to 17-M. Antenna has the triangular shape. Special 'sitting' should be used for the antenna design. Vibrators are screwed in the bottom with the help of strong screws. The design has a small mutual influence for every vibrator against each other.

Figure 3 A triangular shape antenna design

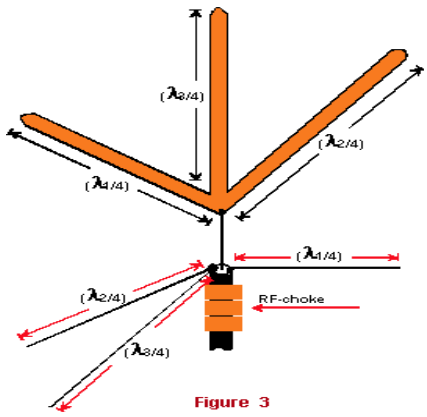


Figure 3

Figure 4 shows a simple design suitable for 6 - to 30-M. Vibrators are screwed to a strong metal angle. Distances between the vibrators are 10 -30 centimeters. It is decrease the mutual influence of the vibrators to each other.

Figure 4 A three range antenna on a metal angle

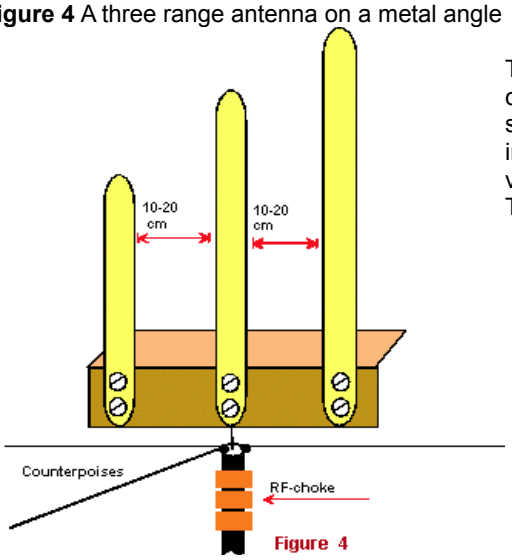


Figure 4

Antenna Adjusting:

The antenna is adjusted by changing lengths of the vibrators. It is not complicated. One way is to move vibrators relatively the metal base, as it is shown in **Figure 5**. Do it carefully, because the vibrators have mutual influence to each other. It needs to do additional holes on to end of the vibrators for realization of the way. It is possible to do one of the vibrators. This method always gives a good result.

Figure 5 A three range antenna adjusting

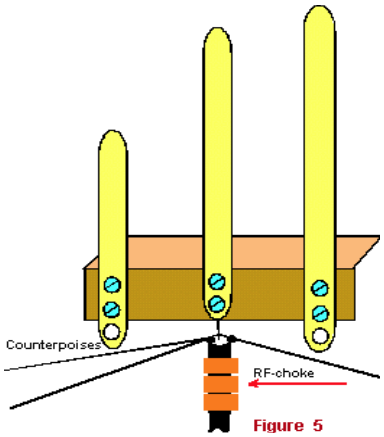


Figure 5

Other way is to change lengths of the upper ends of the vibrators. The vibrators ends made from thick copper or aluminum wire. The wire may be shortened, move in the side, as it is shown in **Figure 6**. But at the way an amateur must have access to ends of the antenna.

A three range antenna for the low ranges

Figure 7 shows a simple design suitable for 40 - to 160-M. Vibrators made from a copper wire in diameter 1 to 2 mm. Vibrators have length (λ/4)*1.1. Each vibrator is matched with coaxial cable with help of its own a 'shortening 'capacitor. The shortening capacitor can have 100-pF at ranges of 6- to 17-M, 150-pF at ranges of 20- and 30-M, 200-pF at ranges of 40-80 meters, 250-pF at 160-M. The shortening capacitors should be placed in a whether- proof box.

Figure 8 shows another simple design suitable for 40 - to 160-M. Vibrators made from a copper wire in diameter 1 to 2 mm.

Figure 6 A three range antenna tuning with the help of thick wire

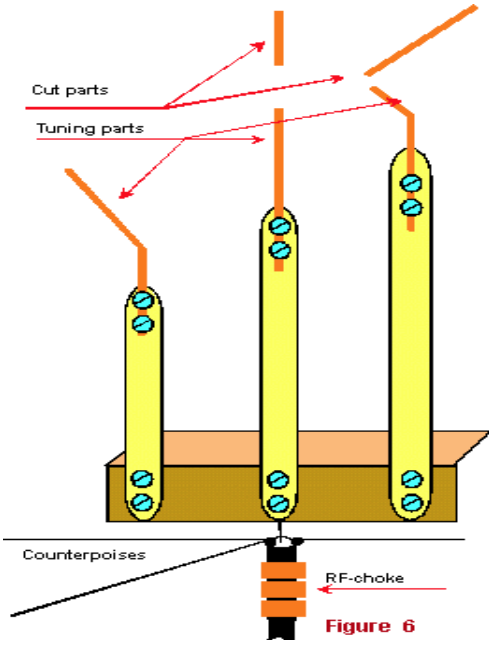


Figure 6

Figure 7 A simple design suitable for 40 - to 160-M

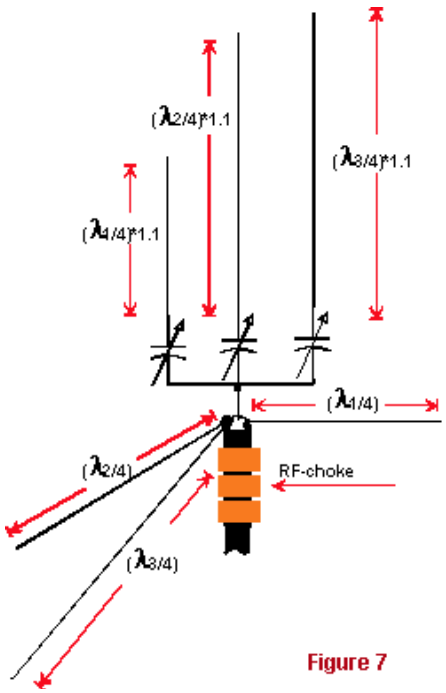


Figure 7

Vibrators have length (λ/4)*(0.5-0.9). Each vibrator is matched with coaxial cable with help of its own a 'lengthening' coil. You can use this design if you have a lack of place.
It is not wise to use more than three vibrators for a multi- range vertical antenna, because overall efficiency of the antenna drops in this case. Such multi- vibrators antenna will be too complicated at adjusting.
Remember: Two and more resonance (a quarter wave) counterpoises for each operation range of the antenna should be used. However, if the antenna is placed at a small altitude above a metal roof and the braid of the coaxial cable has a good electrical contact with the metal roof, the antenna could be used without any counterpoises.
RF – choke should be used: An RF- choke on the coaxial cable should be installed at feeding terminals. . The RF-choke precludes leaking of RF- currents on to outer braid of the coaxial cable. Without the RF-choke the outer braid of the coaxial cable serves as a radiating part of the vertical antenna. It gets to TV and RF- interferences when the antenna operates on transmission. 10 - 30 ferrite rings (permeability does not matter) hardly dressed on the coaxial cable end at the antenna terminal make the RF-choke.

Figure 8 A simple design suitable for 40 - to 160-M with 'lengthening' coil

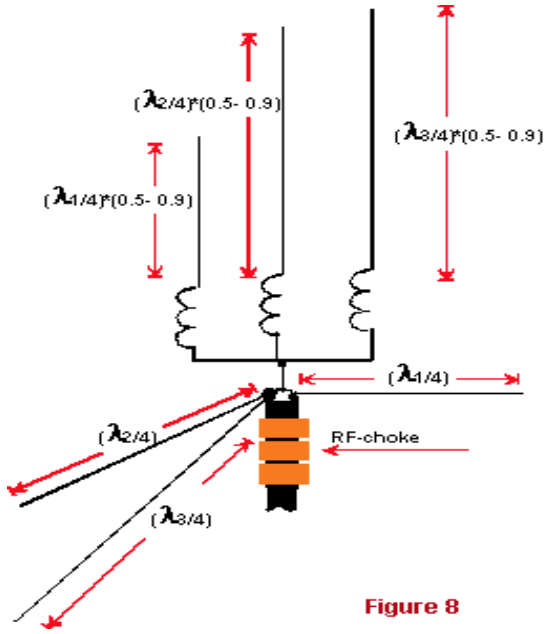
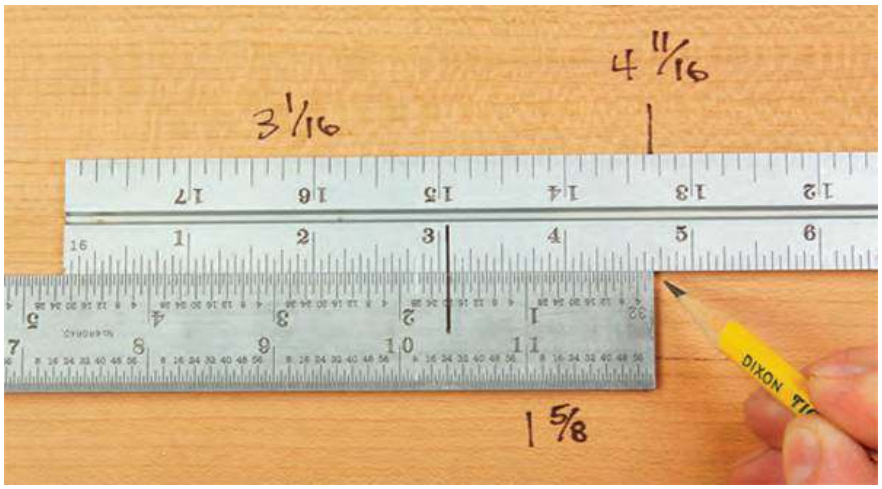


Figure 8

HOW ABOUT THIS

I'LL BE WILLING TO BET A NICKLE AGAINST YOUR DOUGHNUT WITH A HOLE IN IT, YOU'LL WISH YOU HAD TWO STEEL RULES RIGHT NOW.



Here's an old carpenter's trick for solving fractions that works either with two tape measures or steel rules. If you need to add or subtract two fractional measurements, place the two side by side and align them according to the lengths that need to be added or subtracted. It doesn't matter if the denominators of the fractions match, because you're simply comparing two distances, not computing two fractions. For instance, in the photo here, 3-1⁄16″ (top rule) + 1-5⁄8″ (bottom rule) = 4-11⁄16″. The ends of their overlaps tell you the sum. Subtract the same way: the end of the overlap minus one rule's length shows you the answer. No complicated math required.

FCC INVITES COMMENTS ON PETITION TO ELIMINATE 15 dB GAIN LIMIT ON AMATEUR AMPLIFIERS

The FCC has put on public notice and invited comments on a Petition for Rule Making (RM-11767), filed on behalf of an amateur amplifier distributor, which seeks to revise the Amateur Service rules regarding maximum permissible amplifier gain. Expert Linears America LLC of Magnolia, Texas, which distributes linears manufactured by SPE in Italy, wants the FCC to eliminate the 15 dB gain limitation on amateur amplifiers, spelled out in Part 97.317(a)(2). Expert asserts that there should be no gain limitation at all on amplifiers sold or used in the Amateur Service.

RM-11767 can be found on the web at,http://apps.fcc.gov/ecfs/comment/view?id=60001536394 .

"There is no technical or regulatory reason [that] an amplifier capable of being driven to full legal output by even a fraction of a watt should not be available to Amateur Radio operators in the United States," Expert said in its Petition.

Expert maintains that the 15 dB gain limitation is an unneeded holdover from the days when amplifiers were less efficient and the FCC was attempting to rein in the use of Amateur Service amplifiers by Citizens Band operators. While the FCC proposed in its 2004 Notice of Proposed Rulemaking and Order in WT Docket 04-140 to delete the requirement that amplifiers be designed to use a minimum of 50 W of drive power and subsequently did so, it did not further discuss the 15 dB amplification limit in the subsequent Report and Order in the docket.

The R&O is in PDF format at, https://apps.fcc.gov/edocs_public/attachmatch/FCC-06-149A1.pdf

"Although no party advocated retention of the 15 dB limit, it remains in place today," Expert pointed out in its filing. "In the intervening years, advancements in Amateur Radio transmitter technology have led to the availability of highly compact, sophisticated low-power transmitters that require more than 15 dB of amplification to achieve maximum legal power output. Therefore, Expert seeks to remove the 15 dB limit from Part 97.317 so that Amateur Radio manufacturers and distributors will not be forced to needlessly cripple their amplifiers for sale in the United States."

Expert pointed to its Model 1.3K FA amplifier as an example of a linear "inherently capable of considerably more than 15 dB of amplification," which would make it a suitable match for low-power transceivers now on the market having output power on the order of 10 W.

Missouri Radio Amateur Petitions FCC to Designate "Symbol Communication" Subbands

James E. Whedbee, N0ECN, of Gladstone, Missouri, has petitioned the FCC to designate Morse (radiotelegraphy) Amateur Radio band segments as "symbol communication" subbands. The FCC has invited comments on his Petition for Rule Making (RM-11769), filed on May 2. Arguing that retaining the current regime of "legacy" CW subbands has proven to be grossly inefficient, Whedbee said he'd like to see the FCC
delete all privilege restrictions that limit any part of the Amateur Radio spectrum to Morse code to the exclusion of other modes.
RM-11769 can be found on the web at,http://apps.fcc.gov/ecfs/comment/view?id=60001692464 .

"Nostalgia for retention of Morse code telegraphy-only subbands is also an insufficient reason to avoid moving forward to [the]elimination of such subbands, because nothing about this Petition suggests the elimination of the mode itself, only that it not be the sole authorized mode in the subject subbands," Whedbee told the FCC.

Whedbee characterized CW-only subbands as "an excessive regulatory constraint, as well as a poor use of the spectrum concerned." He proposed that the FCC's Part 97 rules reflect the "ultimate form of communication reproduced at the receiving end." As he explained it, his regulatory scheme would break down modes into three categories - "symbol communication mode" - for CW, digital, and other emission modes that reproduce a discrete symbol on the receiving end – "voice mode," and "image mode."

"[C]ontinuing regulation by specific emission designator is proving to be onerous with changes to the state of the art," Whedbee said."Accordingly, to continue developing the state of the art in radiocommunications, Amateur Radio needs to clearly get away from regulating in that fashion and return to consideration of what the receiving end of the communication reproduces."

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OTH RADARS, FISHERY AND TAXI TRAFFIC,BOUYS AND BROADCASTERS CONTINUE TO MAR HAM BANDS

The International Amateur Radio Union Region 1 Monitoring System (IARUMS) April newsletter chronicles a plethora of intruding signals heard on exclusive Amateur Radio allocations in Europe and Africa, many of these also affecting the bands in IARU Regions 1 and 3. The most significant interfering signals originate from over-the-horizon (OTH) radars in China and Russia and affect 40, 30, 20, and 15 meters.

The newsletter also recounts monitoring stations' reports of voice traffic on several bands from fishing operations in various parts of the world, telemetry from marine buoys, and persistent taxi dispatching traffic from Russia on 10 meters. Other interference has stemmed from broadcasters -- harmonic-challenged and otherwise -- as well as from jamming signals attempting to prevent broadcasts from reaching their intended audiences. Pirate (ie, unlicensed) stations have been reported on 80 meters and elsewhere, and Russian digital military traffic has been monitored on 40 and 20 meters.

OTH radar interference prevails, however. IARUMS Region 1 Coordinator Wolf Hadel, DK2OM, documented a Chinese OTH radar occupying considerable swaths of spectrum on several bands.

IARU Region 1 maintains the world's most active network of volunteer intruder monitors.

F.Y.I.

The July Program will be “The Real T42US Story” John / KK4SHF, Ruth / KC4BAB and Stephannie / WX3K

The D.L.A.R.C. meets the “FIRST” Thursday of each month. Membership, friends and interested persons meet at the Bethlehem Township Community Center, 2900 Farmersville Road, Bethlehem, Pa. 18020) at 7:30 PM. Committee reports and announcements of all present and future activities will be presented at that time. Followed by that month's program.

ARES, RACES AND DLARC NET

All Radio Amateurs are welcome to participate in the ARES, RACES and DLARC net. This net meets Wednesday at 1900 hours local time, on the W3OK Repeater 51.76, 146.70 and 444.90 (pl 151.4). With an alternate frequency of 147.370 (DCS 315) W3OI Repeater.

QCWA Chapter 17 holds a net Monday evenings at 8:30 PM on 3960 +/- depending on conditions. Other inputs are the 146.85 repeater, (151.4 PL) and Echolink at K2PM-R.

Mid-Atlantic D-Star Net meets each Tuesday at 7:30 PM. The following repeaters Dstar repeaters are available in the Lehigh Valley. W3OK -145.11000MHz -0.600 Port C – W3OI -147.16500MHz +0.600 Port C, – W3OI - 445.02500MHz -5.000 Port B All repeaters on the net are linked through **Reflector 020 port A**, so all stations checking into the net should make sure that they have *their local repeater call sign followed by the letter “G” in the eight position of the RPT2 field***.** Otherwise, you will only be heard locally and not over the Reflector. Dongle users wishing to check into the net should Log On by connecting directly to Reflector 20, port A, rather than through your local repeater in order to conserve local bandwidth.

The OK Corral is an organization publication for the purpose of informing members of the D.L.A.R.C. of educational and training opportunities, club events, relevant news articles and a monthly calendar of daily activities, meetings and dates.

The Clubhouse telephone number is 484-895-7038.

EXECUTIVE COMMITTEE 2015 – 2016

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PHONE NUMBERS FOR THE EXECUTIVE COMMITTEE OF THE DLARC CAN BE FOUND ON THE WEBSITE / MEMBERSHIP LISTING

CLUB MEETINGS

All regular meetings of the D.L.A.R.C. Are held on the first Thursday of each month at 7:30 PM at the Bethlehem Township Community Center

TALK IN ON 146.700 (PL 151.4)

THE W3OK TRUSTEE --- Barry Vogt / N3NVA

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