



THE AARC BEACON

A monthly publication of the Albemarle Amateur Radio Club

VOLUME 2011, No. 12

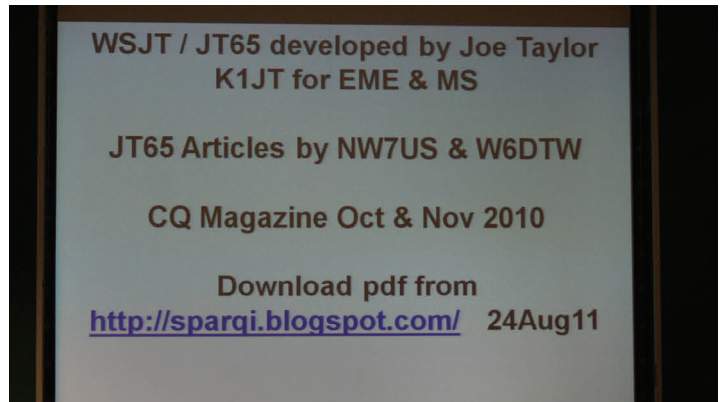
DECEMBER 2011

Selected as 2011 Dayton Hamvention "Ham Club of the Year"

Dennis, K4THE, presented "The Clothesline Antenna" and JT65 Digital Mode to the November 2011 AARC Monthly Meeting.

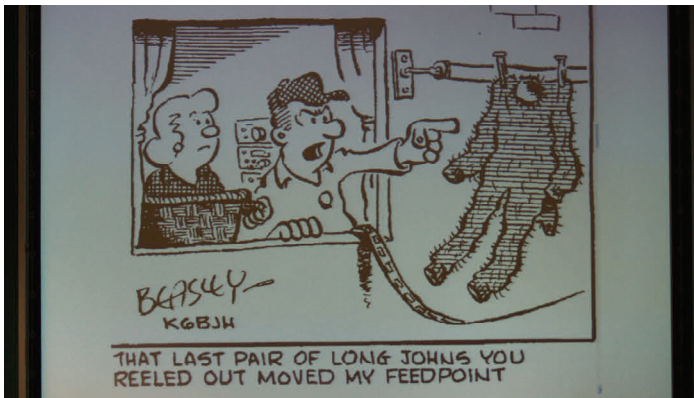


Dennis, K4THE, did an outstanding job presenting construction details and photos of his new Clothesline Antenna for 40 Meters followed by a second presentation with technical information on JT65 digital mode for low power.



The AARC 2011 Annual Awards Banquet will be held on Tuesday, December 13th, 2011 at the Elks Lodge across from Towe Park. Check your email for details. Tickets are still available so if you haven't made your reservations please do so ASAP. Come join us for good food and good friendship.

There will be no December BOD or regular membership meeting. The next regularly scheduled AARC meeting will be held January 10th, 2012.



Featured this month is Jim, K4CGY, in his "Shack"...nice layout Jim and very neat and professional looking!!

Send us your photos and get on the front page!!



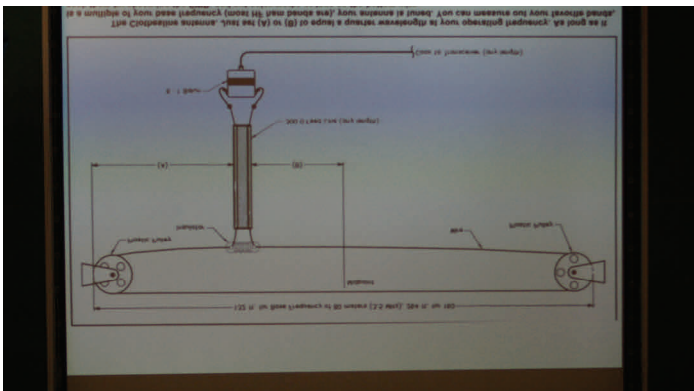
AARC November 8, 2011 Meeting Minutes

Board Meeting

Call to Order – Meeting called to order by President Jim, K4JEC at 7:04 p.m. The following members were present: K4JEC, N4PGS, K4PMC, K4DND, K15LLB, KA4JJD, AD6JV and K4CGY.

SECRETARY'S BOARD REPORT

Patsy, K4PMC, report the minutes of the previous board meet-



ing were published in the Beacon. K4PMC asked for corrections or amendments, Correction of Elmer's call as KF4UCI.

Treasurer's Report- Provided in advance of the meeting in the absence of the treasurer. Copy attached in Minute Book.

Begin Balance	\$5143.70
Expense Repeater	25.88
Repeater	984.97
Income Dues, repeater, etc	203.00
Dinner tickets	32.95
Interest	.08
Ending Balance	\$4368.88

A motion was made to approve a \$100 donation to the Waynesboro Repeater Fund by Greg (N4PGS) and seconded by Dave (K4DND). The motion carried unanimously.

VICE PRESIDENT'S REPORT – GREG, N4PGS – GREG ANNOUNCED THAT TICKETS WERE AVAILABLE FOR THE DINNER FOR \$17 EACH.

President's Report – K4JEC

I have a letter before you, shared via email, to nominate Tom Hanson and Marge Thomas as Honorary Members of the club.

In that Dave, in his capacity as our emergency comms coordinator, interacts most directly with them, I would ask that he speak first regarding this action. Dave (K4DND) moved that they be approved and Jim (K4CGY) seconded the motion. It carried unanimously.

Dave submitted a motion that Dr. Rich Bradley at NRAO be approved for Honorary Membership based on his services to the club over many years.

Committee Reports

Public Service Committee-Dave, K4DND – Dave submitted a policy statement for approval of the board. "The Albemarle Amateur Radio Club supports ARES/RACES as well as Amateur Radio supported public service events. To that end, it will be the official policy of the AARC

that club repeaters and other club resources will be made available at any time in support of any legitimate activity by any licensed amateur."

The motion made by Dave was seconded by Jim (K4CGY) and passed unanimously.

Technical Committee – Jim –K4CGY reported that the 760 machine had been repaired and put back into operation on Marshall Manor.

Fundraising Committee- Michael-KA4JJD reported he had two items for the raffle tonight and made a motion that the board approve the purchase of a Wouxon handheld radio to be raffled off during the Annual Awards Banquet. The motion was seconded by Dave (K4DND). There was a discussion as to whether it should be a 2-mtr/440 or a 2-mtr/220 radio. It was decided to leave the decision to KA4JJD. The purchase was approved unanimously.

Estate Committee – Linda –K15LLB – Nothing to report.

Public Relations - K4BAV – Absent

Education Committee, Bill, AD6JV Nothing for the board.

Old Business -- None

New Business -- None

Adjournment – Meeting adjourned at 7:31 p.m.

GENERAL MEMBERSHIP MEETING

Call to Order -- The meeting was called to order by President, K4JEC at 7:32 p.m. K4JEC welcomed everyone. All members were invited to state their name and call. There were 39 members present. The sign-in sheet is attached to file copy in minutes book.

Secretary's Report - Patsy, K4PMC, report the minutes of the previous Meetings were published in the Beacon. K4PMC asked for corrections or amendments. Nothing offered, they stand as published. Daniel Milner was approved for membership,

Treasurer's Report – Reported for N4UVA in his absence at the board meeting. Copy filed with minutes. Details are shown in the board report.

President's Report – Jim, K4JEC, stated, I found a report of an Amateur Radio Balloon Altitude Record being obtained by Ron Meadows (K6RPT), San Jose, California and his team of fellow hams. I shared this with Mat Shields at CHS for reference material and he responded with a big thank you. (Copy attached) He offered a copy to circulate.

I have announced in an email to the board the appointment of the Nominating Committee for our 2012 Annual Meeting in January. I am very pleased that these members have agreed to take on the task of coming up with a slate of Officers and Directors to ensure the quality of leadership for 2012 that this club has enjoyed in the past.

They are:

Mark Gorlinksy (WA1A) Chair

Joe Flamini (W4BXG)

Will Seay (KJ4XZ)

Bill Pond (N0WP) as an alternate and full member of the committee

It is a very unselfish act to assume the leadership in any organization and the members who accept nomination for any office have to be respected and admired. I urge each of you to think about the prospect of being nominated to an elected position and offer your time and talents to the effective leadership of this club. I ask you to communicate with the Nominating Committee and either express your willingness to accept a nomination or make suggestions as to someone you know who would be willing to accept such a nomination.

Honorary Nomination status report - The board has approved three people be presented to the membership for approved as Honorary Members of the club. They are Marge Thomas, Tom Hanson and Dr. Rich Bradley. After a brief explanation of their contributions to the club and amateur radio, they were approved on a motion by Jonathan Scott (KJ4RPW) that was seconded by Gene (KJ4RPR). The motion carried unani-

AARC Meeting Cont:

mously.

Tickets are now on sale for the Annual Awards Banquet on December 13 at the Elks Lodge across from Towe Park. That is the second Tuesday in December and will take place instead of our regular December meeting. Tickets can be obtained from our website and charged to a credit card or you can pick them up here and now from our Vice President, Greg. They are 17 per person this year and will offer the great buffet we all enjoyed last year. There will be a cash bar.

Vice President's Report – Greg, N4PGS stated he would have tickets for the dinner available during the break. He also reported that the program this evening will be presented by Dennis (K4THE) who will discuss a Clothes

Line Antenna among other things.

COMMITTEE REPORTS

Technical Committee – Jim, K4CGY. – reported that all repeaters were back in service and working properly.

Fund Raising Committee – Michael, KA4JJD–advised that the board has approved the purchase of a handheld radio for the Christmas dinner raffle, either a 2 meter 440 or a 2 meter 220.

Public Service Committee –Dave, K4DND –nothing tonight.

Education Committee – Bill, AD6JV – reported that the Extra class was going well and that all students were expected to sit for an exam. All 3 grades are to be tested on Saturday.

Estate Committee- Linda, KI5LLB - No report.

Old Business- None

New Business – None

K4JEC then asked for a 10-minute recess to get set up for the program.

The Program – Dennie Mennirick, K4THE, presented his presentation on his clothesline antenna.

Adjournment -- The meeting was adjourned at 8:55 p.m.

PRESIDENTS LETTER:

I believe this has been the fastest 12 months of my life. I find it hard to wrap my mind around the fact that we are entering the last month of our club's year. However, it is a time for celebration with good food, good friends and good fellowship. Reservations for our Annual Awards Banquet are running at an all time high so we can expect a record turnout and that is as it should be because we have a lot to shout about. Tickets can be purchased on our website and charged to a credit card, or you can send in a reservation to je-crosby@comcast.net and pay at the door. We must have reservations by Friday, December 9, to insure enough places are set to accommodate everyone.

The year 2011 will certainly be one to remember for our club because we were recognized as the Club-of-the-Year by the Dayton Hamvention, we participated in a record number of public service events., we purchased a new repeater, rebuilt one, purchased two new

controllers and enclosures for them, our treasury is healthy even after the major repeater maintenance expense and the club membership has grown over the past couple of years. We are on a roll!!!

Today, after some major malfunctions, all of our repeaters are up and operational as we go into the potential of some major winter weather anomalies and other needs for our complex of repeaters. Our weather alert system working through our repeaters serves to keep all of our vhf/uhf listeners informed and warned of potential hazards. Our Skywarn Net Control operators are available to establish monitoring on our repeater system to take reports to be passed to the National Weather Service and calls for emergency services, as well as share weather news as activity changes. The club is very fortunate to have a very talented group working as our Technical Committee who has been working overtime to maintain the club's system in the

face of not only age but electrical storms and other maladies.

Speaking of club talent, this club has a wonderful pool of talented people representing all walks and works of life to draw upon when special study and consideration is appropriate to our mission. Over the past several years, we have been polishing our laws of administration through several reviews and modifications of our Bylaws to bring the club into the 21st Century. During our Annual Meeting on the second Tuesday in January, we will be electing our board to a combination of one and two year terms so that past this year we will only be electing three new board members each year instead of the entire group of six.

I understand that our Nominating Committee has potential candidates for each office and directorship with the single exception of Vice President. Their task at this time is to identify a member of the club who is willing to take that role of leadership and become a candidate

PRESIDENTS LETTER; CONT.

later to succeed to the presidency. I was very fortunate to be able to serve two years as vice president to prepare for service as your president. Two years under K4DND's leadership was a great benefit to me. I sincerely believe that anyone who accepts the nomination for Vice President should be willing to move up to the office of President because it should be expected.

Among our present membership, I feel certain that there is one member out there who is perfect for the job and we must identify that person even if they don't realize it yet. I urge each member to assess their ability to serve the club and consider accepting a nomination for office. Leadership has to be rotated around among the membership because always just being a member is not

enough to guarantee the continued success of the organization. Leadership burns out over time and must be replaced with new energy, new enthusiasm and new faces. Could you be that new face of leadership your club needs at this time?

Jim, K4JEC

DX NOTES FOR DECEMBER 2012

DX Notes Items for Dec 2011

How many of you use MUF to really find out what frequency is best to use at the time you are operating?

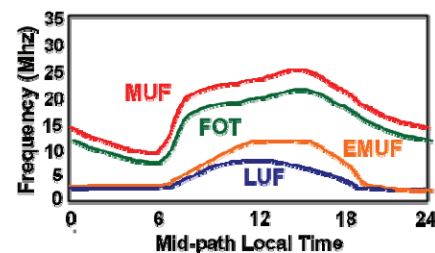
I found that by reading these forecast and putting them to use I am able to make many DX QSO's and even state side solid contacts. If you can learn how to use the MUF forecast and apply them to your operating, you would be amazed how easy DX chasing can be...A search on the below site can yield you a wealth of information.

http://www.weather.nps.navy.mil/~psguest/EMEO_online/module3/module_3_2b.html

We've seen HF frequencies make use of the skywave mode that allows long distance transmissions. The specific frequency to use depends on ionospheric conditions, which are constantly changing. Choosing the best frequency to use for a given situation is not a trivial task. Most HF radio operators have a general idea how frequencies change as a function of the time of day, and they know that sometimes there are problems. But many of them don't understand the nature of the required frequency changes and the problems that sometimes occur.

Most HF propagation models produce a chart similar to the enclosed chart ex-

cept the models show Universal Time instead of Local Time. This shows a typical diurnal change in various frequencies for a mid-latitude location. Note the rapid increase in all the frequencies when the sun rises at about 0600 local time and the more gradual decrease when the sun sets around 1800 local time. This diagram is typical for a favorable situation with no strong space weather events, a moderate range (2,000 to 4,000 km) and a powerful (5,000 Watt) transmitter. With a longer



range or weaker transmitter, the LUF will be higher and may even cross the MUF, the result being that no signals will be transmitted.

Plot of typical diurnal changes in the maximum usable frequency MUF, the frequency of optimum transmission FOT, the E layer maximum usable EMUF, and the lowest usable frequency LUF. This particular diagram is representative of the parameters for a San Francisco, CA to Honolulu HI in October using a 5KW transmitter.

DX NOTES – for the December Beacon

As many of you have experienced, the higher bands (10, 12 & 15M) have been HOT for DX!! The lower bands have also been very good around the sunrise and sunset Grayline periods. 20M has exhibited DX propagation into the late evening. So if you are interested in working some DX and checking out your antenna performance, now is the time . . . and conditions will get even better as we move into winter. Also, recall that there are many DX stations that operate mostly CW. Several club Hams have mentioned that they want to improve their code speed, so I included a note herein from NIWR about using contests to help – “Contest operating is a great way to improve your code speed. You can listen to the station make multiple contacts and pick out the exchange - then call him. You will know what he will send, and you will be operating at a speed greater than normal. This is a good opportunity for you. Most contest operators will slow down for you. Don't be afraid to send QRS. And most important - have fun!”. So, dust off that key and give it a try. Check the Contest Corral in QST for planned contests or www.arrl.org/contests

So, on to some upcoming DX of interest:

DX NOTES, CONT.

RI1F – Franz Josef Land: RI1FJA (Andy – RA3MD) and RI1FJL (Victor – UA3ME) are there now through August 2012. They are active on 10-160M. FJL is straight North from us on the Arctic circle. QSL via RX3MM.

T32 – East Kiribati: If you missed the recent T32C DXpedition, a new team will put that station back on the air from Jan 17 to

Feb 2, 2012 on 6-160M on all modes.

XV – Vietnam: There have been several stations on from VN and Cambodia of late. The next station will be VK6LC, Mal, operating as XV2LC 2-10 Dec. QSL to the home callsign.

SU – Egypt: Vlad, SU9VB, has been active on many bands. Watch for him on the higher

bands around 22-2300Z. Check QRZ.com for QSL info.

Other DX info can be found in the ARRL weekly DX bulletins, QST's DX column and CQ Magazines DX section.

Good luck and see you in the pileups.

73, Alan K9MBQ

Editors note: I regularly subscribe to the QRP ARCI newsletter and the webmaster, Steve, has populated the 2012 Contest Announcement site at www.qrparci.org with ALL of the upcoming contests.

THE CASE FOR BELONGING; BY HARRY, W2HD

THE CASE FOR BELONGING

Many decades ago, while attending a visit to Long Island by then President of the ARRL, W0TSN, he began his presentation by asking the question: "How many of you subscribe to QST?" Just like many, many others in the room, my hand shot up to the ceiling in a very positive indication. We were then shocked by his response to our actions with the simple words: "I don't subscribe to QST." After gasps of disbelief from most of us, he quickly continued "I belong to the American Radio Relay League and my monthly journal is "QST" received as a member of the ARRL."

The ARRL President's words have remained with me for all my life and have been used frequently at several meetings over the years. Of course, looking carefully at an ARRL "membership" application, the word "dues" is readily apparent and the application itself speaks clearly that it is truly League membership.

Now, you might ask, why all this chatter? Well, simply because we who are ARRL members are associated with

one of the world's greatest Amateur Radio organizations and the words on each QST cover are very simple but very meaningful. These words are: "Devoted entirely to Amateur Radio."

Our Albemarle Amateur Radio Club is an affiliated club under the ARRL organization. We are given that recognition because our League membership percentage is large enough to justify this status. Additionally, our club is further identified as a Special Service Club in League circles because our basis of operation covers the many requirements necessary to be so recognized. Our education program, public service event participation, recognition of youth activities and all of the good things a club can do we do and more.

Your membership is essential for maintaining our status and that is part of the reason this article is entitled, "The Case for Belonging." The personal value of ARRL membership lies not only in the receipt of QST each month, but also the access to the vast number of services available to members. Looking at the title pages of QST under Membership Services you

will see QST Archive and Periodicals Search, Free E-Newsletters, Product Review Archive, E-Mail Forwarding and Member Directory. Additionally, there is access to a Technical Information Service and a Regulatory Information Branch (Including, very importantly, free renewal of your license which I continue to use.) Additionally, there is a Ham Radio Equipment Insurance Plan.

The story doesn't end here and there will be additional articles covering further aspects of our need for the American Radio Relay League in future Beacon issues. Join now! 73. W2HD



Harry at one of his Transceivers

AARC FIELD DAY 2011:

AARC Field Day 2011

The December Issue of QST featured a story “**The Agony and the Ecstasy** – Field Day 2011.” This is a cutely written article, using famous authors and great works of literature to tell the tale of Amateur Radio’s Field Day, by Dan Henderson (N1ND) who states, “During my travels, I frequently hear the tales lamenting the pending demise of our hobby. When I look at the numbers and stories that make up ARRL Field Day 2011, however, I believe that the stories of the demise of Amateur Radio are, to quote **Clemens** (Mark Twain), ‘an exaggeration.’

His story goes on “to tell the tale of Amateur Radio at its best in the year 2011.

“For many, the fourth full weekend of June evolves into a fleeting **Utopia** – a place where all is right and good in the world. For an all-too-short period, tens of thousands of amateurs across the US, Canada and seven other countries around **The Good Earth** found unique ways to blend everyday life and their passion for radio into a unique demonstration of public service, operating skills and fun.

To support his statement, he offers, “This year a reported 39,246 participants looked **Beyond the Horizon** to

share in the unique spirit that is Field Day. That is a record number of participants and is an increase of 4% from the previous high set just last year. Aside from a record number of participants, a record 2666 entries arrived at ARRL for inclusion in this year’s event.”

The Albemarle Amateur Radio Club, using the call sign W4DO, was included in that record number of entries. The record shows that the Virginia Section was third in the nation in number of entries (75) with Ohio leading the group with (134) entries, followed by Michigan (92), West Virginia (74) and North Carolina (73).

AARC, competing as a **Class 3A** group, reported in showing 931 contacts with 32 participants accumulating 3,464 points. In Virginia Section, Sterling Park ARC made 2797 contacts with 25 participants accumulating 10,054 points. Fauquier ARA made 2268 with 34 participants accumulated 8,244 points. The Fluvanna Co ARES Group made 1104 contacts with 15 people accumulating 3,996 points. The Shenandoah Valley ARC made 1028 contacts with 27 participants accumulating 3,548 points. Lastly, and following AARC, the Arlington ARC made 649 contacts with 49 participants accumulating 3,154 points.

Of those listed, only Fauquier ARA and

AARC Club Nets

Monday-Night Information Net:

The Information net is held every Monday night at 7:00 PM local time on the 146.760 repeater. Your regular net control, W2HD, brings you news from the ARRL Bulletin and W2PVY provides the Amateur Radio newslines in real audio format.

Northern-Piedmont Emergency Net:

The Northern-Piedmont Emergency Net meets every Thursday evening at 8:00 PM on the 146.76 repeater. The NPEN is a directed net with rotating net-control intended to assist local amateurs with building emergency operating capabilities.

Arlington ARC had more participants than our club. It appears that Arlington ARC had more of a social event than the others with the largest number of participants and the lowest overall score. The figures show that the AARC had a great balance between a social and working event.

Thanks to all for making our Field Day 2011 a great social event that was both fun and productive. Let’s keep the momentum going with some excellent planning for 2012!

THE PROFESSOR SAYS.....

Why is there so much confusion about legal and illegal transmissions in emergency and public service communications? Let's analyze it!

Quoting *The ARRL FCC Rule Book*, "The FCC, ARRL, US Congress and amateurs all across the country believe strongly in the communications capabilities of amateurs during emergencies. In most cases, the emergency communications amateurs provide are legal and strongly encouraged. Yet, because of folklore and second-hand anecdotes, many amateurs have become confused about emergency and public-service communications. Much of this confusion can be traced to the FCC's rules (in effect from 1971 until 1993) banning any form of "business communications." During those years, a "talk-in" station to a hamfest was technically illegal!"

When normal means of communications are overloaded or non-existent and hams are called into service to provide support communications for agencies and organizations such as the US Forest Service, the American Red Cross, local police, fire and rescue services, etc; many hams ask afterward, "Were we legal?"

According to *The ARRL FCC Rule Book* (book), during a bike ride, an Amateur Radio equipped "sag wagon" arrived on the scene of a serious accident. A volunteer paramedic asked to confer with a physician who happened to be in the vicinity of the



Net Control Station. Strangely, the net control operator refused to allow the physician to speak directly over the radio and insisted on verbally relaying each message. The control operator questioned whether it would be legal for the paramedic (non-ham) to speak directly with the physician (non-ham).

The fact that questions of this nature were asked at all, under the circumstances, illustrates the confusing interpretations of the FCC rules within the amateur community. Amateur communications in both of these examples is quite legal and encouraged.

Other situations, however, are less clear cut. For example, you spot a motorist stranded along a suburban highway. Can you call for a tow truck on the repeater autopatch? Under the pre-1993 rules this could have been construed as "business communications;" under the current rules it's perfectly okay. Amateurs are now even permitted to conduct their own personal business over Amateur Radio as mentioned in the Report and Order authorizing the reordered business rules in 1993. Your licensed spouse can call you on the repeater and ask you to bring home a list of groceries for dinner.

The "book" says, "At the scene of an accident, can you hand your radio to an unlicensed person, such as a fire chief? Yes, as long as you remain the control operator, this is merely standard third-party operation [97.115(b)(1)]."

The new rules do not represent a philosophical departure from our "roots." In fact, they are almost identical with the regulations in effect prior to the "no business communications" rule. They provide latitude in our operating and especially in our public service communications, just as we had for decades before the onset of over-regulation in the early '70s. This is one of those rare times when we get to return to the "good old days."

Jim K4JEC

ANOTHER YEAR NEARING THE END...BY HARRY, W2HD

The holiday season is just around the corner and I'm saying, "Where did 2011 go?" It doesn't really make any difference because the stores are beginning to show signs of the season. The toy section of the local stores is having the shelves stocked with all kinds of stuff for the kids. It has been said that a man is known by the "toys" he possesses. Of course, our "toys" are not blocks and the games of the young sons, grandsons and nephews we know. Our "toys" tend to be a bit bigger, possibly costing a few more dollars, too (but not necessarily so these days!)

Incidentally, don't think I'm making myself out to be a male chauvinist. This month's column is addressed to ALL Ham Radio operators... just change a few words above and that will take care of everything!

The important thing to realize is that we have radio equipment... many have something a little bigger and more expensive, but we have what we can afford. However, regardless of the rig... whether a Blooperdyne 7388 or just a little Miniwatter... each of us dreams of something a little more elaborate. Well, fellas

and gals, that's more of a dream than anything else, but that's not the end of the story. The holiday season can be a time to add a little extra here and there. The Blooperdyne rig might need a Blooper Amplifier to become the big signal on the band. Perhaps, the station should have a new multi-band Blooper Antenna system... how about stacked yagis? Well, let's leave good old KW Joe with his big station and come down to earth where most of us live.

ANOTHER YEAR: CONT.

Is it really necessary to have all that gear and keep the power company in business? Not really! There are a great number of stations with relatively low power who day in and day out have more success and fun, too, with much less. They do it with smarts! To those in this category, a holiday gift-receiving list might include a choice of a good Amateur Radio book or publication, a VSWR Bridge, a simple VOM or perhaps a 24-hour clock with GMT setting capability.

Most of these items are not a tremendous strain on the giver's budget. Books might include a copy of the latest ARRL Handbook or the Antenna Book. Both publications look good on the desk or in the bookcase and will provide lots of good information. A publication could be a year's membership in the ARRL which

includes the monthly magazine, QST, which is a fountain of information and makes a good building block for next year's gift-receiving list. VSWR Bridges come in all shapes and flavors. There are fancy digital types which don't require reading a meter, simple units with crossed needle indication and the tried and true zero the meter in the calibrate position and switch to read SWR. A few dollars separate the entire field. While on the subject of VSWR, maybe an antenna matching unit would be in order for the Ham who can't put up the simple antenna with coax feed and must use the random hunk of wire out the window approach. Now, there are a bunch of suggestions!

The VOM price range is also a very interesting variable. You can range from the simple pocket type all the way to the

fancy Fluke meters with the big price tag. If all you do is measure 12 VDC and the 115 VAC line plus simple shorts and opens on cable, there is no need for the fancy, high price unit. You will obtain fine results with the 3x4 Sears or Radio Shack varieties for that work.

I'm sure that a glance through the latest AES or HRO catalog, coupled with a quick look at the latest issue of QST, CQ or Brand X will bring many other items in the modest price range into view. You may still look at the Blooper Amplifier and the stacked yagis and dream a little, but you won't be any happier than you will be with the modest gift lovingly received on the special day of the year.

73... Harry, W2HD

Happy Holidays
and Best Wishes
for 2012 from
AARC !!!



The Beacon Mission

The official newsletter of the Albemarle Amateur Radio Club, Inc. will strive to communicate with, enlighten, and entertain the members of the club in strict compliance with the official word of the club as set forth in the Articles of Incorporation and Bylaws as administered by the officers and directors who constitute the Board of Directors. The newsletter shall be published monthly on or before the 1st day of the month of issue. The deadline for submissions shall be the 25th of the month preceding the month of publication. The primary role of the publication shall be to promote upcoming activities, report past activities and accomplishments of the club and its members, carry the minutes of the preceding month's Board Meeting and General Membership Meeting, include an official club calendar of the month, as well as, become a recorded history of the club by the archival of all past issues as paper copies contained within a single notebook for each year of publication.

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Hams Helping Hams

AARC Club Repeaters

146.760 (-) 151.4 Hz Tone

146.925 (-) 151.4 Hz Tone

146.895 (-) 151.4 Hz Tone

224.760 (-) No Tone

444.000 (+) 151.4 Hz Tone

444.250 (+) 151.4 Hz Tone

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Marty Wangberg W4MBW.....Newsletter Editor

Bob Dorsey W4RQ.....Newsletter Editor Emeritus



AARC 2011 Elected Leadership