

AARC Meeting Minutes for October 8, 2019

Meeting called to order at 7 PM by Bob Pattison, VP presiding.

Bob informed us that Pat Wilson passed away recently.

Introductions done by all members.

A.J. described raffle prizes.

Stan, K2SSB, thanked everyone for best wishes for his wife.

Presentation by Andrew Wiley, KK4SHO, on "What You need to know to get started in DMR".

DMR stands for "Digital Mobile Radio"

Andrew got into ham radio to use DMR and Fusion.

DMR based on European Standards Institute (ETSI) 2005 Tier 1 & 2 standard.

DMR was designed with 3 tiers and primary goal was low cost and low complexity technology and interoperable across brands. DMR Association standard specifies air interface between radios. Uses 2-slot TDMA and 12.5 KHz channel bandwidth. Modulation is 4-state FSK which creates 4 symbols at a rate of 4800 symbols/sec or 9600 bps, covering 30 MHz to 1 GHz frequency range.

DMR can do 2 simultaneous voice conversations using single DMR repeater.

This is a more efficient use of radio spectrum versus analog radio.

There are 12 DMR manufacturers. Multiple talk groups exist. 30 ms / slot with improved voice performance. No hissing or popping noises. Other advantages to DMR, more efficient use of radio spectrum than analog, longer battery life on radios, compressed signal, radio transmits ½ time due to TDMA.

DMR uses 7-digit user id and a color code similar to PL or CTCSS tones.

Digital bands: 70 cm, 2 m and 33 cm. Three tiers exist: Tier 1 is FDMA, Tier 2 is 2-slot TDMA and Tier 3 is 2-slot TDMA with trunking.

There are 2100 DMR repeaters, 34,000 registered radios.

Networks are divided by infrastructure. CBridge -Motorola, Brandmeister Hytera, Mototrbo, DMR+ is newest on Hytera. DMRVA is 10 plus repeaters in VA.

AWSVa (NoVa) 4 repeaters, 2 DMR repeaters in C'ville and 20 registered radios on C'ville. DMRVA on Afton Mtn is at 444.9125, CC:1.

Cost of ownership of DMR equipment for a club: \$1800 for repeater and \$375 for software.

He reviewed HT's and mobile rigs. A network consists of Master, c-bridge server and peers. Getting started with DMR you need radio ID, net registration and a 7-digit user ID. DMR radios require a "codeplug" which has software with set of

instructions including frequency, color code , TS, and talkgroup. Alternative is using hotspots with analog radios. DMRVA.org is website to get started. Questions & Answer session started after presentation.

Business Meeting:

Bob Romanko gave report on UVA bicentennial event last Saturday. More than 600 QSO's completed, 200 were digital and 20 DX countries contacted. Kevin prepared special QSL cards for event. Members at event promoted student membership in W4UVA club.

Break for 10 minutes.

David Collins, N4WDC, Affiliate Club Coordinator, VA section for ARRL gave brief remarks about clubs. He said there are 65 affiliated clubs in VA. AARC is one of the most active clubs. He presented AARC VP Bob Pattison (K4DU) a certificate from the ARRL\ designating the club as a "Special Service Club".

Club voted in 3 new members: Igor Gelmanov, KN4YNK; Seth McCready, KN4YNI (under 21) and Bob Miller, W4RBM (rejoining after a lapse).

Minutes from August meeting approved by club.

Treasurers Report by Don Eason, Jr:

Here is the monthly report:

Beginning Balance:	\$19,104.90
Checks:	\$579.80
Deposits:	\$100.14
Ending Balance:	\$18,625.24

The checks were \$525 deposit on the annual Awards Banquet and \$54.80 for repeater hardware.

Don Eason Jr., Treasurer

Committee Reports:

Public Service from John Porter:

Bike Tour de Green Saturday, Oct. 12: will need volunteers for communications

Technical: Bill Pond not there at mtg, no report.

Fund Raising, A.J. Miller, KE4AJM:

He made request for \$350 for Awards at Holiday Awards Banquet which was approved at meeting.

Education, Rick Oliver: not at mtg, no report.

Public Relations, Paul McKee: not at mtg, no report

Estate, Jim Owen, K4CGY:

Recently received some equipment from estate including Heathkit and other equipment, valued at about \$850.

Old Business: none.

New Business:

Dave Damon, K4DND discussed scholarship money given to ARRL. He said he was disappointed with ARRL in not properly awarding the money we gave for scholarship fund. He recommended not giving club money to ARRL scholarship fund anymore but instead club should give money locally. Motion was made to do this. Discussion ensued. Motion approved by membership present at meeting.

Luke and Seth announced new Monday night net at 7 PM on 145.73 repeater for new hams (licensed in last 2 years) to get help on simple stuff in getting started on air.

Larry Eicher discussed forming this year's nominating committee for elections to be held at the January 2020 meeting. So far Bob K4DU and Larry K4JZQ are on the nominating committee but at least one additional member is needed.. . All 4 officers and 3directors (Fundraising, Education and Public Relations) up for election.

Announcements:

Board meeting Saturday, Nov. 2 at 10 AM at Northside Library. All members are welcome to attend but non Board members must RSVP to N3US so he can ensure we have a large enough room.

Annual Awards Banquet to be held Dec. 10 starting at 5:30 PM at Doubletree Hotel. Please signup online and cost is \$21 per person. Annual dues are \$20 per year.

Register at: <https://www.albemarleradio.org/register-for-aarc-awards-banquet/>

Raffle held: AJ reported \$42 earned.

Meeting Adjourned at 8:50 PM.

Respectfully submitted,

/s/ Stephen Kramer, Secretary

AARC Sign-In Sheet For:

Guests Please Note: Please add your contact information on the back for additional information about the club and amateur radio.

NAME	CALL/Guest
1 STEVE KRAMER	KN4CJI
2 Joe GIOVANELLI	W2PIY
3 DENNIS MANNERICH	K4THE
4 DAVID THOMAS	WD30
5 Chappy Chapman	K4ERTZ
6 RL Bogden	KF4AGT
7 Joe DeVincentis	K08V
8 Dave Beede	KN4UEK
9 Allen GRAVES	A64VA
10 STEVEN HOLL	KN4TKR
11 JIM WILSON	K4BAV
12 CARTER Elliott	WD4AYS
13 Ben Casto	NX4S
14 BILL OLEKSY	KF4IE
15 George Grotz	AA40
16 DAVE DAMON	K4DND
17 Greg Faust	N4PGS
18 Lou Costanzo	K4OPS
19 Wm N Solomon	A14MV
20 Jerry Ecker	K4TZQ
21 JIM OWEN	K4CGY
22 JEFF VANSEGBROECK	KN4YNJ
23 Wm DAVID COLLINS	N4WDC
24 STAN HAZEN	K2SSB
25 Dennis TERRIBILE	WR4I
26 Jim CROSBY	K4JEC
27 Paty Crosby	K4PMC
28 Dan Shamard	N6DJS
29 Bob PATTERSON	K4DU
30 Pete Thorsen Jr	W4PKT
31 Jan Callahan	KN4TGG
32 PAN BRSON	N4UV/A
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