

## AARC Meeting Minutes of March 12, 2019

Called to order at 7:03 PM by Ed Berkowitz, club president.

Ed reminded everyone to keep meeting room clean when we leave and to put chairs and tables back as we found them

Each Member and visitor introduced themselves.. See Attached sign-in sheet.

### **Treasurer's Report by Don Eason:**

Beginning Balance:	\$20,243.66
Checks:	\$175.00
Credits:	\$1,000.70
Ending Balance	\$21,069.26

Don said we gave \$1000 donation to ARRL scholarship fund in December 2018 and recommends making same donation this Fall.

### **Repeater Report by Bill Pond:**

Purchased S-COM repeater controller. He is now programming this controller. His plan is to replace old ARCOM controller at Martha Jefferson. He was reimbursed for S-COM purchase and will report its performance at the next meeting.

**Public Service report by Dave Damon:** Ed asked Dave Damon if he could report on PS events as John Porter was not present. However, Dave stated that this is nothing new to report this month.

We voted in new members Becky & Kevin Numbers and Dave & Jessica Oaty.

### **Field Day Report by Bob Romanko:**

Field Day committee kickoff meeting is at Northside Library in the Big meeting room on Wednesday, March 13 from 4:30 PM to 6:00 PM. FD will be the 4<sup>th</sup> full weekend of June at Earlysville Volunteer Fire Company site. This is a good location but our main challenge is to get visitors from the general public out there. Other alternatives are to use city/county parks. However, these are general not an option since all AARC parks ban

overnight camping. A variety of positions on the FD committee are open. See Bob's email of 3/13 to sign-up for area of interest.

These include: Publicity, Information Station, Invitations, Safety Officer, GOTA, Operator Coordination/Scheduling, Transceivers, Antennas, Energy/Generators/Cords, PC Network/logging, Educational Activity, Food, Venue/facilities and Shelters/tables/chairs.

Bob's son has volunteered to revamp FD poster and will provide several options to the committee.

**Publicity Report by Paul McKee:**

At FD kickoff meeting will discuss getting posters and interviews with local radio/TV stations.

**Other items mentioned:** Reminder that we need speakers and topics for April and May monthly meetings. June club meeting will be about FD.

Two Presentations were given, one by Mike McPherson on ARES Update and another by Michael Ellington on NFC tags.

**Mike McPherson reported on ARES Update.**

He said ARES is separate from AARC. Last October he discussed resetting ARES. There are now 9 members in ARES. Focus is on Winlink which is an important part of emergency nets. There were 139 check-ins from 95 people on Wednesdays. 6 of the 9 members now check in to net every week and he wants to get all 9 to do this.

Discussion about using HF NVIS as vertical propagation to deal with dead-spots in area. Intended for local use. NVIS tends to work at long wavelengths, 80 & 40 meters.

Other capabilities would be a deployable WIFI hotspot. Need to use multiple technologies for Internet access. Hotspots cost around \$300.

Training classes for ARES occur on 4<sup>th</sup> Tuesday each month. Mike wants to add field training sessions on Saturday mornings.

Anyone can join ARES if committed and interested. Mike said ARES is more like a volunteer fire department. Need to put time into training and FEMA long, online classes.

Took 10 minute break.

**Presentation by Michael Ellington on NFC TAGS: an overview.**

Michael talked about RFID tags now used everywhere. Information is transferred by radio. There are two device types, active and passive, which operate in 120-150 khz range and 3.1 – 10 Ghz range. Line of sight is not required. Used by toll roads, warehouse management, retail inventory, utilities and casinos.

NFC (Near Field Communications) tags are a subset of RFID and are smaller and more focused. NFC uses peer-peer model, single connection. For example, used for video games, mobile payments, car keys. Operates at short range, only 13.56 Mhz. There are 2 components: reader (active) and tags (passive). IC's are used in readers and are powered by EM induction. Passive tags require no power source. There is limited memory and range is about 1 inch. There are 5 model types. Iphone 7 Plus uses NFC. His interest in NFC tags is they are cheap (40-50 cents each), useful way learn new technology, and he bought too many and wants to make use of them. There is an app for programming tags downloaded from online stores. Chips are rewriteable but can be locked. Others mentioned that they can be used for RC models and to track battery charge cycles.

**New Business:**

No auction today since A.J. Miller was not here.

Jim Condon was asked about arranging a summer trip to Green Bank Radio Observatory. Iim will review dates and then the club can pick one.

Kevin Numbers, KC8MTV discussed his relatively new repeater near Afton mountain, KC8MTV, 145.290, PL tone 131.8. There is a Saturday night net at 8 pm.

Adjourned meeting at 8:15 PM. Members invited to stay and informally talk.

Respectfully submitted,

/s/ Stephen Kramer, Secretary

AARC Sign-In Sheet For  
 MARCH 13, 2019

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

NAME	CALL/Guest
1 STEPHEN KRAMER	KN4CJJ
2 Michael Ellington	KN4BFB
3 Tim Condon	AD4YM
4 Michael Rem	K4455D
5 Dave Daman	K4D4D
6 JOE GIOVANELLI	W2PVY
7 DENNIS MENNERICH	K4THE
8 STAN HAZEN	K2SSB
9 DENNIS TERRIBILE	WR41
10 JOSH JOHNSON	K4OOD
11 AL BOGDEN	KF4AGT
12 George Grotz	AA4D
13 Chuck Gross	K54NW
14 STEVEN R. HULL	
15 Ben Casto	NX4S
16 Michael Ellington	KN4BFB
17 Jim Ellington	
18 KEVIN CICALINA	K4SHR
19 Annue Pond	XV4
20 Ed Bestow & N3DS	
21 Wesley Eppoly	K4WLE
22 Greg Faust	N4PGS
23 Bill Pond	N0WP
24 Kevin Numbers	KC8MTV
25 DAVID A. THOMAS	WD30
26 Wynn Solomon	AI4MV
27 Joe DeVincentis	K08V
28 Bob Komanko	AK4BR
29 Jim <del>HOWEN</del> OWEN	KYCGY
30 DON EDSON, JR.	N4UVA
31 Paul McKee	AK4OH
32 BILL OLEKSY	KF4IE
33 Ian Callahan	KN4TEG
34 Kieran Garrat	KN4G0Z
35 Chris Shaw	K7CGS
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