

## **AARC Meeting Minutes of July 9, 2019**

Called to order at 7 PM by Ed Berkowitz, President.

Introductions were done by meeting attendees. See attached attendee list

Michael Rein is running raffle tonight and described items being raffled.

Ron Richie described several tools and miscellaneous items for sale. Jim Owens told about test equipment for sale.

Bob Romanko gave presentation about 2019 Field Day.

His slideshow gave the highlights of FD and will be published on the club webpage. He also presented post-mortem about FD.

Some highlights:

- Location at Earlysville Volunteer Fire Company site worked out. He will put reservation in right away for next year's FD. He pointed out that finding a good location in Albemarle Co. Is difficult.
- Facilities were good with restrooms, tables, etc.
- Education on Morse Code was successful.
- Tarps were used to reduce heating and operating tables were spread out.
- Publicity was excellent. Several TV stations and newspapers showed up and we were on the news shows.
- There was a decent public turnout.
- Safety officer was present at all times and there were no safety incidents.
- GOTA was successful. New tents used for GOTA and Welcome.
- We had 57 individuals sign-in as either visitors or participants.
- Transceivers worked well.
- Bought new OCFD antenna and installed with hex beam and several dipoles. Antennas did need some testing

beforehand. Suggestion for next year to start setup on Friday for antennas and test then.

- Used one Honda generator to run all equipment.
- PC/LAN/Internet setup worked well.
- Food supplied as donations by several vendors, rest was bought. Some of our f local merchants who donated included Wayside chicken, Costco, Sams Club, Panera, Starbucks, Wegmans and Mission BBQ.
- Operator Scheduling/Coordination did have some problems. Printout not available and whiteboard used. Not everyone used board. We need to do better next year.
- QSO summary: Phone use way down on 40/20 meters from last year. Digital (FT8) did really well this year. Band conditions were bad.
- Bob will publish FD report on AARC website.

### **Committee Reports:**

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

Beginning Balance:	\$20,828.13
Checks:	\$1,300.88
Deposits:	\$.15
Ending Balance:	\$19,527.40

Checks issued for annual rental of our PO Box FD food and repeaters.

#### **Technical Committee Report by Bill Pond:**

Purchased and tested new S-COM controller. Replaced equipment at Bucks Elbow site.

#### **Estate Sales Report by Jim Owens:**

No donations so far this summer

#### **Public Service Report by John Porter:**

Next event is August 4 and two more events in September.

**Publicity Report by Paul McKee:**

He recommended advertising for new members. Bob Romanko talked about Fall special event at UVA for bicentennial celebration. He's working with Facilities management on locations. Date to be announced.

**Old business: none****New business:**

Don Eason made motion to send \$250 donation to EVFC as thanks for FD. Motion approved.

**Greenbank Observatory Report by Jim Condon:**

Day-trip scheduled for Saturday, Aug. 3. Meet at NRAO building at 8:30 am. He'll hand out directions and will lead caravan. Jim described activities for the day. Lunch will be provided. Reminded everyone to fill out online forms for trip including lunch suggestions. Tour will end around 3:30 or 4 pm. So far, 14 have signed up. July 19 is deadline for signing up. Jim Condon should be put down on form as host.

**Discussion on September picnic by Ed Berkowitz**

September 8 is annual picnic. Need people for grilling hamburgers and hotdogs. Another option would be to purchase food from Mission BBQ and or Wayside chicken. Starts at 5 pm with silent auction, then short meeting, then dinner starts at 6 pm.

Location: Darden Towe Park, Pantops.

**Discussion about sending formal thank you's to food donors for FD by Larry Eicher:**

There were donations of \$500 in food for FD. Club spent about \$30. Mission BBQ donated \$200 in food. Formal thank you letters will be sent to all donors.

10 minute break.

**Presentation on CubeSat and Internet of Things by Mike McPherson**

Mike talked about building and launch of UVA, Virginia Tech and Old Dominion joint project of CubeSat's to measure atmospheric drag. Antenna put up on roof for this project. Cubesats launched in April aboard Cygnus/Antares rocket from Wallops Island. These were deployed on July 3. No communications with satellites yet since NASA hasn't released orbital parameters.

Presentation about IOT also by Mike McPherson:

Basic idea of IOT is any gadget using electricity can be on Internet. IOT is used for home automation as sensors and controlling devices. Farmers use IOT now. Work progressing on using RF for powering low-power devices. Several standards are being developed. One by IBM-ed consortium is LoRA (LONG RANGE) which describes signaling and control and bit transmission and uses AES 128 encryption. IOT designed around low power devices using batteries. Spread spectrum transmission is used on 400 or 900 MHz frequencies. CHIRP protocol used.

Range is 3 – 4 km in urban areas. LoRAWan defined in layers 2-4 of OSI model. LTE used by AT&T is another IOT technology being developed.

New member Dave Beebe admitted to club.

Larry Eicher spoke about Aug. 31 walk for breast cancer and donations to walk.

Raffle held. \$100 raised.

Meeting adjourned at 9 PM.

Respectfully submitted,

/s/ Stephen Kramer, Secretary

AARC Sign-In Sheet For

7/9/19

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	KN4CJI
2 DENNIS MENVERRICH	K4THE
3 JOE GIOVANELLI	W2PVY
4 TIM WILSON	K4BAV
5 Paul McKee	AK4OH
6 Joe DeVincentis	K08V
7 BILL O'LEKSY	KF4EE
8 KEVIN CUALINA	K4SHR
9 Jan Callahan	KN4TBC
10 AL BOGDEN	KF4AGT
11 Tommy Moore	WB5BNT
12 TIM CONDON	AD4YM
13 Row Richey	K4RKA
14 Chappy	K4ERZ
15 Bill Phillips	AD6JV
16 DAVE DAMON	K4OND
17 Leenie Wilcox	Guest ewilcox@hamilton.edu
18 GLENN GARRET	KN4GGZ
19 STEVEN HULL	KN4TKR
20 Dave Beebe	Guest KN4UEK
21 DAVID THOMAS	WD30
22 Ben Casto	N445
23 John Porter	K4HJP
24 Richard Freeman	K4APK
25 Barbara Freeman	KN4LH
26 <del>Walt</del>	KN4BFB
27 Jim Ellington	X4C
28 W. DUNN SIMMON	A44MV
29 JERRY CRESBY	K4JEC
30 Patsy Cresby	K4MC
31 Bill Pond	N4DWP
32 CONNIE POND	<del>AD</del>
33 Michael Rein	K4HJTD
34 JIM OWEN	K4CGV
35 Mike McPherson	KN4QP
36 Fanny Ecker	K4TZO
37 Don Ecker	N4UVA
38 DENNIS TERRIBLE	WR41
39 Bob Pattison	K4DII
40 PETE THORSEN JR	W4PRT

NAME	CALL/Guest
41 Dan Shumard	N6DTS
42 BLENN SHOWALTER	WB2LDS
43 Ed Berhowitz	N3 US
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