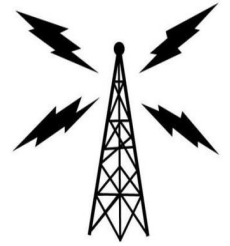




DFARG Signal



This year's Santa Radio is organized by three Finnish regional groups: Radio Team Mustila, OH5Z, The Radio Club of Pusula, OH9W, and northern Radio Arcala, OH8X, with their associated elves, supported by the Finnish Amateur Radio League (SRAL). The Hunt for Santa Claus (HSC) will start on Friday, December 21st at 1800 UTC. It will end at 2159 UTC on Monday, December 31st. This year Niko, OH5CZ (18), Otava, OH30T (16) and Arttu, OH2FB (15) are heading the mission along with many others from their age group, while the more seasoned elves bang the drums in between. The youngsters will be 25 pointers, and you can identify them by a two-letter X-report. For example Niko will give you 59 XN. The regular elves will give you 5 points and a three-letter identity, such as 59 RAI or 59 TIM. Your target is to contact OF9X once on each band-mode. For example once on 20m CW, once on 20m SSB, etc. Your score is band-modes (5 pointers) added together plus number of X-QSOs (25 points each). The five (5) highest scores from each continent will be awarded and all high-scorers (up to 10 from each continent) will participate in a lucky draw of a unique first prize - one that only Santa's office is aware of at this point.

Club Officers for 2020

Elections for officers for 2020 were conducted at the November meeting in the following slate: Charlie Brown, KD4CB, President, Tim Smith, K4OIW, John Siebels, K4AXV, Treasurer, Elaine Thorp, N4EHT, Secretary, and Jim Walters, KB4FF, Legal Officer. The newly elected officers formally begin their duties on January 1, 2020. They look forward to serving the members of DFARG/PARC and earnestly solicit input from the entire membership on all aspects of club management,

ARRL Recognizes Cliff Kayhart



Roanoke Division Director Bud Hippisley, W2RU, Roanoke Division Vice President Bill Morine, N2COP, and SC Section Manager Marc Tarplee, N4UFP present Cliff Kayhart, W4KKP, the American Radio Relay League's Centurion Award at the DFARG/PARC November meeting. A video of the award presentation may be found at <https://youtu.be/NwOgmIFQW1o>.

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December 19, 2019

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Monthly meeting is January 16 at the shack in Little Mountain. This month Kevin Nason will discuss making vertical HF antennas work,

Upcoming Regional Hamfests and Conventions

01/04/2020 | [Annual Freezefest](#)
Location: :Locust Fork, AL

01/04/2020 | [K4KDI Winter Tailgate](#)
Location: Orlando, FL

01/04/2020 | [Morristown Hamfest, an ARRL Operating Specialty Convention](#)
Location: White Pine, TN

01/11/2020 | [Greenwood Amateur Radio Society Hamfest 2020](#)
Location: Greenwood, SC

01/11/2020 | [Georgia State ARES Meeting, ARRL Operating Specialty Convention](#)
Location: Forsyth, GA

01/11/2020 | [TARCFest](#)
Location: Tampa, FL

01/11/2020 | [W4NC First-Fest](#)
Location: Winston-Salem, NC

01/17/2020 | [Southwest Florida Regional Hamfest](#)
Location: Fort Myers, FL

01/18/2020 | [GARS TechFest](#)
Location: Lawrenceville, GA

01/25/2020 | [DeSoto County Hamfest](#)
Location: Arcadia, FL

Regional Net Schedule

All Times in Eastern Time Zone

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	South Carolina SSB Net 1900 3.915						
	Coastal Carolina Emergency Net 1900 3.907						
	South Coast Amateur Radio Service 0800-1100 7.251						
	Intercontinental Amateur Traffic Net 0700-1100 14.300						
	Salvation Army Team Emergency Radio Network 1100 14.265						
	7240 Club 1000-1200 7.240						
		- -	- -	- -	- -	- -	- -
		- -	- -	- -	- -	- -	- -
		- -	- -	- -	- -	- -	- -
1930		Little Mountain 147.210 + T156.7					
2000		Kershaw ARC 146.775 - T156.7	Sandlapper SSB 50.250		Calhoun ARES 146.670 - T 156.7		
2030	Columbia ARC 147.33 + T 156.7		Lexington ARES 147.000 + T123.0	Columbia ARC 147.33 + T 156.7			
2100	Ridge ARC 146.550 Simplex				Greenwood 147.165 + T 107.2		Ridge ARC First Saturday 3.959
	Ridge ARC 147.255 + T123.0 after simplex						

1. David Graham, President of DFARG, called the meeting to order at 6:30 pm. with 27 members in attendance.

2. President Graham introduced ARRL Officials, Roanoke Division Director Bud Hippsley, W2RU, Roanoke Division Vice President Bill Morine, N2COP, and SC Section Manager Marc Tarplee, N4UFP who were present to present Cliff Kayhart, W4KKP, the League's Centurion Award.

3. Cliff Kayhart, W4KKP, the oldest known radio amateur, was presented the ARRL's coveted Centurion Award represented by an engraved plaque at the November 2019, meeting of the DFARG and PARC. The award recognizes radio amateurs who have attained Centurion, 100 year, status. Cliff, who lives in White Rock, South Carolina, is 108. The ARRL Board of Directors conferred the award on Cliff at its July 2018 meeting. The plaque was signed by Rick Roderick, K5UR, ARRL President. While Cliff, W4KKP, was first licensed in 1937 as W2LFE, he has also held the call

W9GNQ.

One of Cliff's most interesting life time experiences was his service as an Army Lieutenant on Iwo Jima during WW II. Shortly after the U.S. occupied the island, the General in command assigned Cliff the task of establishing radio communications between Iwo Jima and Tokyo preceding the anticipated Japanese surrender. Cliff coordinated with Sea Bees the construction of under ground tunnels to protect the transmitters and generators from enemy bombing. Having witnessed the destructive power of the B-29 bombers stationed on Iwo Jima, Cliff is of the opinion that the War in the Pacific was won by General LeMay's saturation bombing of Japan and not the deployment of nuclear ordinance.

At wars end, cliff returned to the states, worked for the telephone company, assisted with the design and construction of Radar units at RADLAB and built his first television after purchasing the CRT. Presently, Cliff remains active routinely checking into several nets from his assist-

ed living facility in White Rock, SC. Cliff has created a few pileups once it's learned that he's 108. Centurion Award recipient's League membership fees are waived while they continue to receive QST and all other member benefits. A video of the award presentation may be found at <https://youtu.be/NwOgmIFQW1o>.

4. John Seibels', K4AXV, presentation based on "**The Top Secret Operation That Changed WW II**" follows the development and use of radar during WW II as it unfolded through the contribution and activities of Henry Tizard (English born chemist and radar research committee chairman), Alfred Loomis (American investment banker, scientist and philanthropist), Eddie Bowen (Welsh born physicist) and Karl Compton (President of MIT and physicist). Tizard was instrumental in the early development of radar necessary to protect English cities within 70 miles of Britain's East coast from German bombers.

The first systems operating at 11.5 Mhz were noisy, had limited range required enormous power and the scan rate was too slow to capture faster planes. The first test system did

return a flying boat at 350 ft. off shore which prompted the construction of the **Chain Home**, 350 ft. towers along Britain's East coast. Receiving towers were made of wood, transmitting towers of steel. Research determined that 910 Mhz. was the ideal frequency to capture aircraft at altitude. However, 200 Mhz. was tops at the time and early klystrons could produce only 50 watts output. Thereafter the cavity magnetron was developed by the Brits which operated at the higher frequency and generated immense power from a relatively small system which enabled microwave radar systems to be carried aboard aircraft and warships.

Although President Roosevelt wished to remain neutral, Churchill prevailed in 1940, and lend lease was born to provide Britain with weapons and supplies lost at Dunkirk. Churchill offered Britain's radar expertise for America's Norton Bomb Site. Roosevelt declined on the Norton bomb site, consequently, only scientific information was exchanged after the National Research Council meeting in Canada. Later Tazar met with Lomas and Compton

See page 4

Treasurer's Report

No Treasurer's Report was submitted for November

Minutes, cont'd.

to have America built radar equipment at RADLAB on the campus of MIT. Tazar transferred a newly developed 9.5 kw, 9.8 cm radar system to Compton by secret transatlantic voyage to facilitate construction of radar equipment at MIT's RADLAB. Shortly thereafter, German subs sank two US destroyers off Greenland. Five weeks later Japan bombed Pearl Harbor. The US was now in the War and RADLAB was building radar for both America and Britain.

Germany obtained, reverse engineered and constructed a British designed, American made radar system to detect Allied radar signals. Success was short lived. When the Allies discovered the Germans were monitoring their signals, the Allies replaced their older 10 cm systems with newly developed more effective 3 cm systems. German boats equipped with the 10 cm radar sensing systems were quickly sunk. Acquisition of the German Enigma decoder about this time helped find those boats. The new 3 cm system with conical scanning was installed on anti-aircraft

guns to improve accuracy first in Italy where many German bomber were destroyed. Also, German subsonic V1 missiles were shot down by 3 cm radar equipped anti aircraft guns. The new systems could track the V1s to their launch base which would then be targeted by allied bombers.

In 1945 with war ending in Europe RADLAB moved from the MIT campus to work on the atomic bomb and Loomas retired to a plantation he'd bought in South Carolina. In 1975 Loomas passed away and the plantation was sold to a development company. It is now known as Hilton Head Island.

5. The Secretary inquired of a quorum in attendance if they had read the Minutes of the October 2019 Meeting online and if any corrections were found. As a majority indicated they had read said Minutes and there were no corrections found a motion

Upcoming Contests

January

- 1 ARRL Straight Key Night
- 5 ARRL Kids Day
- 5-6 ARRL RTTY Roundup
- 11-12 N. American QSO Party CW
- 18-19 NAQSOP SSB
- 19-21 ARRL January VHF
- 24-26 CQ 160m CW

February

- 11-15 ARRL School Club Roundup
- 16-17 ARRL International DX - CW

was made, seconded and approved to accept said Minutes. Further, the Secretary confirmed that the equipment that W2PAT's daughter, Nancy Upchurch, donated to DFARG has been added to DFARG's Equipment Insurance coverage, excepting items valued at less than \$100.00.

6. Charlie Brown, as unopposed nominee for 2020 DFARG/PARC President will act on his motion and next year convene a meeting of the Executive Committee to discuss how and when to repair our sagging yagi boom. It is suggested that we find a climber, borrow or buy 160 ft. of Dacron line for the gin pole presently clamped to the tower, have the ground crew supported climber go up tower with line, attach line to center of yagi boom, feed line through gin pole to ground crew, unbolt yagi from mast, assist ground crew in lowering beam, repair

See next page

WE'RE ON
THE WEB!
WWW.W4DFG.ORG

Upcoming DXpeditions:

For more information go to <https://www.ng3k.com/>

Start	End	DXCC	Call	Info
Dec02	2020	Ecuador	HC	Loja and possibly Guayaquil; 40-10m; SSB + digital
Dec04	Dec13	St Martin	T09W	160-6m, focus on 160 80 40m; mainly CW FT8
Dec10	Dec23	Maldives	8Q7XY	40 30 20 15 10m; mainly FT8 SSB
Dec13	Dec15	Senegal	6V1A	Goree I (IOTA AF-045); HF; SSB CW
Dec13	Dec20	Georgia	4L	focus on low bands; mainly FT8 FT4; 100w
Dec14	2020	Thailand	HS0ZNR	Nam Yuen, Ubon Ratchathani; 80-10m; SSB FT8; 200w
Dec15	Dec21	Ecuador	HC5JLT	HF + 6m; SSB CW + digital
Dec21	Dec28	Liechtenstein	HBO	80-10m; SSB CW + digital; 1kw
Jan05	Jan11	St Lucia	J6	IOTA NA-108; HF; SSB + digital
Jan05	Jan11	St Kitts & Nevis	V4	HF; all modes
Jan06	Jan12	Palestine	E44RU	Jericho (KM71fm); 160-10m; CW SSB FT8 (f/h)
Jan07	Jan13	Palau	T88AQ	160-10m; CW SSB FT8; 1kw; yagis, dipoles
Jan09	Jan14	Bermuda	VP9	Hamilton; @VP9GE; 160-10m; CW SSB; 100w
Jan09	Jan15	Montserrat	VP2MDT	SSB CW; holiday style operation
Jan12	Jan31	Norfolk I	VK9NK	160-10m; CW SSB RTTY
Jan15	Jan23	Palau	T8	160-10m; all modes
Jan20	Feb09	Cocos I	TI9	IOTA NA-012; 160-6m; SSB; 2 stations; 700w
Jan28	Feb07	Gambia	C5XW	40-17m; holiday style operation
Jan30	Feb13	El Salvador	HU1DL	160-17m, incl 60m; CW SSB RTTY FT8

Minutes, cont'd.

beam on ground, then reverse process to re-install. Use of a bucket truck is unnecessary and too expensive.

7. Tim Smith has five participants for his Extra License class which meets Tuesday – Thursday at 10:30 pm. Initial trial test were disappointing but work continues.

8. Tom Francis reports that John Miller is recovery nicely from his by-pass, heart surgery and will soon resume DFARG activities. Tom offered to conduct Technician license classes.

9. Former DFARG President

and Secretary, Jim Lamb opened the election of 2020 DFARG/PARC officers with a declaration of the nominees and respective offices: Charlie Brown, KD4CB, President, Tim Smith, K4OIW, and Bruce Frost, KI4VRO, vice President, John Siebels, K4AXV, Treasurer, Elaine Thorp, N4EHT, Secretary, and Jim Walters, KB4FF, Legal Officer. All members in good standing. Secretary, Jim Walters, asked all members present who had not previously acquired a ballot from the front podium for the Vice President to do so. A motion to elect by acclamation the unopposed nominees for President, Treasurer, Secretary and Legal Officer was made, seconded and approved. Then,

ballots for Vice President were requested, collected and counted by Jim Lamb. Secretary, Jim Walters announced the count was 14 votes for Tim Smith, and 8 votes for Bruce Frost. Tim Smith was elected Vice President. The newly elected officers assume their respective offices January 1, 2020.

10. President Graham congratulated the newly elected officers and adjourned the meeting at approximately 8:15 pm.

Jim Walters
Secretary

Ham Humor

Check Register

Number	Date	Description of Transaction	C	Debit (-)	Credit (+)	Balance
	12/20/18	Previous balance			\$453.45	\$453.45
1033	12/21/18	GigaParts		\$123.78		\$329.67
	12/22/18	Deposit, sweepstakes winnings			\$10,000.00	\$10,329.67
1034	1/3/19	Ham Radio Outlet		\$239.59		\$10,090.08
1035	2/12/19	R and L Electronics		\$73.75		\$10,016.33
1036	2/28/19	Ham Radio Outlet		\$789.99		\$9,226.34
1037	3/3/19	MFJ		\$221.99		\$9,004.35
1038	4/1/19	DX Engineering		\$332.79		\$8,671.56
1039	5/5/19	DX Engineering		\$79.99		\$8,591.57
1040	5/30/19	SOTABeams		\$129.99		\$8,461.58
1041	7/7/19	Ham Radio Outlet		\$39.99		\$8,421.59
1042	8/15/19	MFJ		\$199.99		\$8,221.60
1043	9/2/19	GigaParts		\$201.83		\$8,019.77
1044	10/10/19	GigaParts		\$79.99		\$7,939.78
1045	11/15/19	Ham Radio Outlet		\$29.99		\$7,909.79
1046	12/22/19	MFJ		\$69.99		\$7,839.80

Proof that I did not buy Ham gear EVERY month last year!