



The SKYHOOK



HOLIDAY CITY AMATEUR RADIO CLUB

www.hcarc.us

October 2019

Toms River, NJ

From: John Sawina

Sent: Thursday, June 13, 2019 11:37 AM

To: Members of HCARC:

I will NOT be running for President for 2020.

It's been my pleasure being your president for 2019.

73,

John Sawina – NA2R

VE Session Report



by Larry Puccio, K2QDY.

At our last VE session we hosted one candidate, Robert Kowalski.

We had Volunteer Examiners Larry Puccio, Stan Stafiej, Steve Jackson, John Roberts and Tony Kuzinski in attendance.

The candidate, Robert Kowalski, was there to take the Technician exam. In 10 minutes he handed in the test and successfully passed. We asked him if he would like to try for the General class test, and he took that one as well, and also passed it.

He said he would be coming to join our club.

HAPPY BIRTHDAY TO:

Larry Puccio K2QDY

Kathleen Kozakiewicz

Harriette LeFevre

Charlotte Militano



HAPPY ANNIVERSARY TO:

Ray & Kathleen Kozakiewicz

Morton & Elaine Levy

Larry & Janice Loscalzo

Joe & Charlotte Militano



Confirming Ability To Communicate

At our next meeting, we'll discuss QSL cards and other methods of confirming contacts.

"Can you acknowledge receipt?" and "I am acknowledging receipt" were the old meanings of "QSL?": and "QSL". But what do they mean to us today?

QSL is not the same as "R" or "Roger", which simply means that the message was received.

To commercial radiotelegraph operators, confirming was absolutely necessary for several reasons.

NEXT REGULAR MEETING:
Thursday October 3rd at 7:00 PM
Bldg A, Meeting Rm. #1
Holiday City South Clubhouse
Santiago Drive at Mule Road
Toms River, NJ

Ocean County ARES® News

– October, 2019

On September 15, 2019, Ocean County ARES was represented at the Gloucester County Hamfest and ARRL SNJ Section Convention by having an NBEMS/NVIS demonstration exhibit. The fest was held at the Gloucester County 4-H Fairgrounds in Mullica Hill, NJ. Two mobiles were displayed with NVIS long wire antennas, including the OCARES ANA-1 Chalk line antenna. Under a display tent, two portable NBEMS stations were setup running FLDIGI and FLMSG software. Two large screen TV's were used to display the laptop PC's to make it easier for guests to see. The two stations sent digital messages and images back and forth using VHF transceivers tuned to 146.550 MHz simplex, each connected to a dummy load so we would not disturb any local communications. Thanks to the following operators who provided support of the exhibit:

WX2NJ, N2XW, WB2ALJ, NJ2N, K2MDW, KD2FFR, N2QXB, N2RPQ and K2EDS.

The 2019 Simulated Emergency Test (SET) will take place on October 5th. No defined time or duration has been announced. This year's SET will include all SNJ counties and their served agencies. So far, only a handful of Ocean County operators have signed up. If you are interested in participating, please contact WX2NJ.

The next meeting of Ocean County ARES will be Wednesday, October 16th at 7:00 PM, Ocean County EOC, Robert J. Miller Airpark, Berkeley Township. We will be de-briefing the SET exercise and continue to discuss topics in the Task Book. Refreshments will be provided. There will be no training net the evening of the meeting.

On October 19th Ocean County ARES will be participating in a road clean-up activity in Berkeley Township. We will meet at 9:00 AM at Veeder Lane in Bayville near the empty lot next to the Shop Rite. Veeder Lane is our assigned road to clean and



NBEMS/NVIS Exhibit

Photo by WX2NJ

Berkeley Township will donate \$500 to us for the effort. We need these funds to procure our annual liability insurance and this is an easy way to get the funds and help the community at the same time.



2019 Habitat Walk, Lavallette WX2NJ-KC2SBR-N2XW
Photo by N. Murdock

On September 7th Ocean County ARES provided communications for the Habitat for Humanity Walk in Lavallette. The route was a three-mile loop around the Lavallette boardwalk and Route 35 sidewalk. ARES provided safety check points to ensure all were on track and no one was in distress. Thanks to the following operators who participated:

WX2NJ, N2XW, N2LD, WB2ALJ and KC2SBR.

The weather was absolutely perfect and most of us stayed after the event to walk a second loop.

73 de WX2NJ

Bob Murdock

Ocean County Amateur Radio Emergency Service® EC

Get-Togethers

(Some of our friends, who invite you to join in)

Oct. 7 Breakfast at HC Diner

Oct. 14 Lunch at Lisa's

Oct. 21 Breakfast at HC Diner

Oct. 28 Lunch at HC Diner

Our VE Crew

Larry [K2QDY](#) (Liaison) 732-349-2950,

Urb [W1UL](#), John [KQ4WR](#), Stan [KB2PD](#),

Steve [N2WLH](#), Larry [WA2VLR](#), Tony [KD2GSO](#).

License exams are given by appointment at 6:30pm on the second Wednesday of each month at Holiday City South Clubhouse, Bldg A, which is at the corner of Mule Rd. and Santiago Dr. Call Larry Puccio, K2QDY, at 732-349-2950 for an appointment.

Directions: From either Route 37 W or Davenport Road, take Mule Road to Santiago Drive. Clubhouse A is the building nearest the street corner.

CLUB COMMITTEES

Refreshments: Marge [KD2LNT](#) pearl1122@comcast.net

Webmaster: Steve [N2WLH](#) N2WLH@yahoo.com

Programs: Carl [W2PTZ](#) W2PTZ@arrl.net

Sunshine: Dave [WA2DJN](#) WA2DJN3@verizon.net

Field Day: Larry [K2QDY](#) 732-349-2950

VE Sessions: Larry [K2QDY](#) 732-349-2950

Membership: Doug [KC2TZC](#) 732-928-2316

Holiday City Amateur Radio Club

Toms River, New Jersey

Web Site www.hcarc.us

President John Sawina [NA2R](#) 908-625-5622

Vice President Billy Locke [KD2MHA](#) 732 281-0151

Secretary John Perry [KD2NDY](#) 732-349-2705

Treasurer Larry Puccio [K2QDY](#) 732-349-2950

Executive Board Doug Poray [KC2TZC](#) 732-928-2316

Executive Board John Roberts [KQ4WR](#) 732-966 4665

W2HC Trustee Larry Puccio [K2QDY](#) 732-349-2950

Membership is open to all interested persons. Ham license is not required. Dues are \$25.00 per year, payable Jan 1st. Members joining during the year will have the dues prorated. Family membership \$30.00 per family.

Meetings are held on the first Thursday of every month, at 7:00 pm, except December.

Location: Meeting Room #1 in the Holiday City South Clubhouse A.

Directions: From either Route 37 W or Davenport Road, take Mule Road to Santiago Drive. Turn into the parking lot from Santiago Drive and park near the pool. Enter the building nearest the street corner.

The SKYHOOK is published monthly as the HCARC's official newsletter.
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Ham Radio Something for Everyone

By Urb LeJeune W1UL

Prologue

During a recent training session, my friend John Zaruba, K2ZA, started his presentation with the statement: "Ham Radio is a thousand hobbies within a hobby." Despite the hyperbole all the attendees got the point.

Background

When I received my class B license (W2DEC) in 1949 my operating options were limited to CW, and Phone starting at 10 meters through the microwave bands. When I received my class A license a year later, I could operate AM phone on 75, 40 and 20 meters. It didn't make a lot of difference because my rig didn't have a modulator. There was also Civil Defense. Does anyone remember the little Gonset with the green eye? If you promised to participate in weekly drills your municipality would lend you a Gonset.

The Times are Changing

How times have changed. The operational options may not be a thousand but they are a lot closer now than back when I was first licensed. Two of my bucket-list options are moon bounce (EME) and satellite. Both require a large investment.

However, there are options available, that require only a General License and a rig capable of operating on the HF Bands, which you probably have. Let me suggest one.

I tend to accomplish a task more quickly when I have a goal. My suggestion: pursuing a Worked All States (WAS) certificate. If you are relatively new to HF you will learn much about propagation while pursuing your WAS.

Excellent tools when pursuing WAS and an introduction to contesting is the North America QSO Party. It's a low pressure contest. You can only run 100 watts. Check it out at <https://ncjweb.com/naqp/> There are two events per year for CW, SSB and Digital. The exchange is your name and state. My first name is Urb. During my first NAQP SSB version, more than half of my contacts requested a repeat on my name. During

my second SSB event, I became Bill and there were no requests for repeats of my name.

Emergency Communications

Have you ever wondered why ham radio exists? We certainly have choice bands that many commercial enterprises would pay large amounts of money to acquire. The answer is quite simple; during times of emergencies when commercial communications are not available, ham radio fills the gaps.

Make Emergency Communications preparedness part of your station activities. Look into ARES (Amateur Radio Emergency System) or RACES (Radio Amateur Civil Emergency Service.)

73, Urb, W1UL, urb@ham-cram.com

FCC Amateur Radio License Exams

The Holiday City ARC holds VE testing (FCC license exams) at the Holiday City South club house located at 139 Santiago Drive (at Mule Rd), Toms River, NJ on the second Wednesday of each month at 7:00 PM in room 1 of building A, except when there are no applicants. The testing is done on a scheduled basis only (no walk-ins).

Two items of identification are required, and at least one must be a photo ID such as a driver's license. The fee is \$15.00 by check, payable to the American Radio League. Cash will also be accepted.

The fee is for the exam session and the paperwork, not the license, which is free. If you are successful in passing a test you are eligible to take the next grade higher. So a person could advance from unlicensed to Extra for only \$15 by passing the exams for all three grades at the same session.

If you currently have an amateur radio license, bring the original and a copy. If you have a CSCE from a previous testing session please bring that also.

For registration and to confirm a seat please contact Larry Puccio, K2QDY, at 732 349-2950.

Larry Puccio K2QDY Worked:

DATE	TIME	FREQ	MODE	CALLSIGN	ENTITY	MILES
9/12/2019	21:39	14.014	CW	YU7KM	Serbia	4600 NE
9/12/2019	21:24	14.035	CW	DL5UZ	Germany	3800 NE
9/12/2019	21:20	14.011	CW	EW1I	Belarus	4500 NE
9/12/2019	18:17	14.013	CW	5A8KVK	Libya	4700 ENE
9/11/2019	21:53	14.005	CW	DK6FX	Germany	3800 NE
9/10/2019	21:38	14.022	CW	DK4KK	Germany	3800 NE
9/10/2019	21:26	14.015	CW	II4GRM	Italy	4300 ENE
9/03/2019	21:07	14.018	CW	IS0ZOD	Sardinia	4200 ENE
9/03/2019	00:02	7.013	CW	9A6M	Croatia	4300 NE
9/02/2019	20:45	14.028	CW	I1ULJ/8	Italy	4300 ENE
9/02/2019	20:26	14.252	SSB	IZ8FFZ	Italy	4300 ENE
9/02/2019	20:00	14.205	SSB	5B4AMX	Cyprus	5500 NE
8/29/2019	22:45	14.008	CW	IK1QHB	Italy	4300 ENE
8/29/2019	22:41	14.006	CW	EG5UCE	Spain	3600 ENE
8/29/2019	21:26	14.245	SSB	IK4GRO	Italy	4300 ENE
8/29/2019	21:22	14.248	SSB	CT1ASM	Portugal	3400 ENE
8/29/2019	21:14	14.012	CW	LZ1WR	Bulgaria	4800 NE
8/28/2019	23:15	14.010	CW	OK2AN	Czech_Repub	4100 NE
8/27/2019	21:24	14.013	CW	HB9DTA	Switzerland	3900 NE
8/27/2019	21:15	14.011	CW	7X4AN	Algeria	4100 ENE
8/27/2019	21:06	14.008	CW	SQ8GHY	Poland	4300 NE
8/27/2019	20:57	14.010	CW	IK1QHB	Italy	4300 ENE
8/27/2019	20:40	14.037	CW	EW1I	Belarus	4500 NE

Miniature Antennas

by John Roberts, KQ4WR

First, consider the "full size" antenna:

The antenna length is usually a half wavelength if it's center-fed; or a quarter wavelength if it's a vertical, fed at the bottom, with a ground plane to complete the circuit.

The Basics:

It's important to understand that at any instant of time, power is the voltage at that instant times current at that instant. Because the current and voltage may be out-of-sync, the average power of a full cycle may be much less than the ac voltage times the ac current.

Transmitted power equals the ac Current, squared, times the Radiation Resistance.

You'd expect the voltage to be the radiation resistance times the current, but there's also voltage lost to wire resistance, especially if off-resonance.

There's also loss of power in damp insulation.

At its primary resonant frequency, the half-wave dipole presents a 74 ohm resistive load to the transmission line. In other words, at 74 volts, it draws one amp of current, and the current is in sync with the voltage because that's the Radiation Resistance.

Just for example, 74 volts, times one in-phase ampere, equals 74 watts.

The radiation resistance depends roughly on the antenna length squared, so running an antenna at half the frequency it's made for will present a radiation resistance of only 18.5 ohms.

Quadrupling the current to get back to 74 watts solves that problem, but it also means a lot of volts that are uselessly 90 degrees out of phase.

When a man I knew tried 75 meters mobile, there was corona at the top of his antenna. I figure the radiation resistance was under an ohm, so the current at 100 watts was over 10 amps, and the voltage at the top must have been well over 100,000 volts.

There are two fixes, popular on mobile "whip" antennas. One is a loading coil in series with the feed or half-way up the antenna. The other is a metal structure, called a "hat", at the top of the antenna. The object is to tune the antenna to resonance. (The fellow on 75 meters added a cage-like hat, which helped a lot.)

Remember that the shorter the antenna is, the more important it is to tune it, and the higher the RF voltage is on its elements. And, of course, the RF current is then also more concentrated. Remotely controlled tuning should be used, because the RF field near the antenna can be dangerous. Household wiring and appliances will affect and be affected by the antenna, so be sure to place it where it's least likely to be a problem. The space high above the garage is usually suggested the if antenna must be "indoors".

An extreme example of a short antenna is the 3-foot diameter MFJ loop antenna used by Russ, WA2VQV for DX contacts on bands as low as 7 MHz. Russ tunes it remotely from the shack. Tuning is very sharp and critical. The RF current in the loop is a lot of amps, which is why the loop is made of metal tubing and the tuning capacitor is robust. The RF voltage is also very high.

Check with our "experts" before attempting to select or install any antenna. It's not something you should do safely by yourself, even if you're an "expert".

Some DX Opportunities

Callsigns shown in alphanumeric order

Italics if DX > 6000mi

Mode codes: 8 = JT8, C = CW, D = Digital, J = JP4, P = PSK31, R = RTTY, S = SSB, T = SSTV.

Bands: "Low" usually means 160, 80 & 40m.

Many thanks to NG3K and to the RSGB, ARRL, DXW, TDDX & QRZ for the data.

Start	Finish	Call	Entity	IOTA	Bands	Modes	QSL Via	Grid	Miles	Dir
Oct 26	Oct 27	(CQ 'test)	CQWWSSB Contest							
Sep 27	Oct 03	3W9KJ	Vietnam	AS-132	80-10m	8,4	LoTW	OL30Lt	8242	N
Oct 18	Oct 26	3W9KW	Vietnam: Hanoi				DK8KW	OL21wa	8228	N
Oct 23	Nov 01	3W9QR	Vietnam: Da Nang		80-10m		JJ1DQR	OK46bb	8568	N
Oct 03	Oct 13	5B/DL2SBY	Cyprus	AS-004	80-6m	S,C,D	LoTW	KM74ax	5538	NE
Sep 29	Oct 05	5H3CA	Tanzania	AF-054	160-10m	C,S	RC5A	KI93sa	7787	E
Sep 29	Oct 05	5H3MB	Tanzania		80-10m	C,S,R	IK2GZU	KI71gc	7609	E
Sep 29	Oct 05	5H3RRC	Tanzania	AF-054	160-10m	C,S	RC5A	KI93sa	7787	E
Oct 15	Oct 30	5K0K	SanAndres&Provid.	NA-033			LoTW	FJ35aa	2415	S
	Oct 07	5X8C	Uganda				ON6NL	KJ61ga	7059	ENE
Sep 23	Oct 08	60100	Somalia				EP3CQ	LJ22pa	7659	ENE
Oct 01	Oct 19	7P8AO	Lesotho				HA5AO Dir	KG40dj	8124	ESE
Sep 29	Oct 06	9H3GK	Malta	EU-023			DL700 Bur	JM75ex	4625	ENE
Oct 18	Oct 22	9H3YY	Malta	EU-023			DL2JRM	JM75ex	4625	ENE
Sep 24	Oct 06	A35JT	Tonga	OC-049	160-6m	S,C,8,R	LoTW	AG28hw	7718	W
Sep 28	Oct 11	A82X	Liberia		160-10m	C,S,R	OQRS/LoTW	IJ47ma	4503	ESE
Sep 28	Oct 11	A82Z	Liberia		160-10m	8	OQRS/LoTW	IJ47ma	4503	ESE
Jul 01	Dec 13	BV0ME	Taiwan	AS-020	80-10m	8,S	BU2EQ	PN02ma	6698	NNW
Sep 29	Oct 13	D44TWO	Cape Verde Is	AF-005	160-10m	8,D,R,c	M00XO	HK86mr	3450	ESE
Oct 20	Nov 01	D68CCC	Comoros	AF-007			TBA	LH18pi	8190	E
May 02	Oct 31	DM460DA	Germany		6m		DL9GFB	JO31aa	3768	NE
Oct 01	Oct 11	EA8/DL4FO	Canary Is	AF-004			DL4FO	IL16hc	3373	E
Oct 15	Nov 03	FH/DJ7RJ	Mayotte	AF-027			DJ7RJ	LH27pa	8353	E
Sep 24	Oct 08	FP/KV1J	StPierre&Miquel	NA-032	160-6m	S,R,8,c	LoTW	GN17sb	1014	NE
Sep 20	Oct 07	HQ9X	Honduras	NA-057	160-6m	"All"	KQ1F	EK66td	1786	SSW
	Oct 07	HR9\W1UE *	Honduras	NA-057			W1UE *	EK66td	1786	SSW
	Oct 06	OC19IARU	Peru				Bureau	FH18ma	3595	S
	Oct 20	OE190APD	Austria				OE3BKC	JN88hh	4275	NE
	Oct 20	OE192APD	Austria				OE3BKC	JN67nw	4146	NE
	Oct 20	OE196APD	Austria				OE3BKC	JN77nm	4242	NE
Oct 05	Oct 12	OJ0W	Market Reef	EU-053			OH3WS	JP90mh	3980	NE
Sep 30	Oct 04	OY/LB5GI	Faroe Is	EU-018			LoTW	IP60oa	3133	NE
	Apr 01	P29ZL	Papua New Guinea	OC-034	40,30,20m	S,8	W1YRC	QI23wq	9041	WNW
Oct 17	Oct 31	P4/PA7DA	Aruba	SA-036			PA7DA Bur	FK52am	1915	S
Oct 18	Oct 29	S79CI	Seychelles	AF-024			SP6CIK	LI75ri	8482	ENE
Oct 18	Oct 29	S79W	Seychelles	AF-024			SP9FIH	LI75ri	8482	ENE
	Oct 05	S79GJ	Seychelles	AF-024	20,6m	S,8,EME	W7GJ	LI75wp	8487	ENE
	Jun 30	S79VU	Seychelles	AF-024	80-10m	S,D	per opr	LI75ri	8482	ENE
Sep 20	Oct 10	SV5/DL3DRN	Dodecanese	EU-001	80-10m	C,S,R	LoTW	JO40ic	3901	NE
Sep 20	Oct 03	SV9/PH2M	Crete	EU-015			LoTW	KM25hj	5116	ENE
Oct 07	Oct 23	T30GC	West Kiribati	OC-017			LoTW	RI88ep	7303	WNW
Oct 02	Oct 14	T080SP	StPierre&Miquel	NA-032			LoTW	GN16tw	1015	NE
Oct 01	Dec 15	TR8CR	Gabon				F6AJA	JJ40mm	5843	E
Aug 21	Oct 14	TT8JLH	Chad		20,15m	S	eQSL	JK72mc	5650	E
Oct 05	Oct 12	V31CC	Belize	NA-073			LoTW	EK57um	1764	SSW
Oct 05	Oct 12	V31JW	Belize	NA-073			LoTW	EK57um	1764	SSW
Sep 21	Oct 07	V31US	Belize:OrangeWalk	NA-073	80-20,10m	S,D	V31DX	EK58nc	1745	SW
Oct 16	Oct 22	V47JA	St Kitts & Nevis	NA-104			LoTW	FK87pf	1717	SSE
Nov 18	Nov 26	V63AR	Micronesia	OC-010	160-80m	C	K7AR	QJ96cv	7794	WNW
Oct 08	Nov 04	VK9N (?)	Norfolk I	OC-005			LoTW	RG30xx	8892	W
Oct 04	Oct 13	VP2V/N5AQ	Br Virgin Is	NA-023			LoTW	FK78qk	1597	SSE
Oct 04	Oct 13	VP2VEM	Br Virgin Is	NA-023			LoTW	FK78qk	1597	SSE
Oct 18	Nov 01	VP6R	Pitcairn I	OC-044			TBA	CG44ww	5756	SW
Sep 20	Oct 05	VP9/DL1YAF	Bermuda	NA-005			DL1YAF	FM72ph	749	SE
Oct 19	Nov 03	VU7RI	Lakshadweep Is	AS-011			LoTW	MK60dw	8323	NE
Oct 12	Oct 15	W9HT/VP9	Bermuda	NA-005			W9HT Dir	FM72ph	749	SE
Oct 02	Oct 09	XV9DXB	Vietnam				EB7DX	OK30it	8933	N
Oct 03	Oct 10	YJ0BCP	Vanuatu	OC-035			KD7WPJ	RH43am	8407	W
Oct 02	Oct 11	ZK3A	Tokelau	OC-048			LoTW	AI40bt	7032	W

October						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2	3 HCARC Meeting 7pm	4	5
6	7 9:00am Breakfast at HC Diner	8	9 VE Exams; call Larry 349-2950 for appointment	10	11	12
13	14 Noon Lunch at Lisa's	15	16	17	18	19
20	21 9:00am Breakfast at HC Diner	22	23	24	25	26
27	28 Noon Lunch at HC Diner	29	30	31		