

The SKYHOOK



HOLIDAY CITY AMATEUR RADIO CLUB

www.hcarc.us

OCTOBER 2013

Toms River, NJ

NOTICE OF ELECTION

ELECTION OF OUR CLUB OFFICERS

The October meeting is when we elect officers for the coming year. The one-year terms start immediately after the meeting, and end at the conclusion of next year's October meeting. Come and vote.

We expect this to be a very short business meeting, followed by refreshments and the usual fellowship and idea exchange and a presentation about DX Clusters.

DX Clusters is a Meeting Topic

At the October 3rd meeting, after the election, we'll discuss the wonderful world of DX Clusters. They're websites that show who's talking to who, gleaned from automated SWL computers, and updated minute by minute.

October Calendar

Oct 3 at 7pm	HCARC Meeting
Oct 9 at noon	Luncheon at Fusion Buffet
Oct 9 at 7pm	License exams
Oct 14 at noon	Lunch at Holiday City Diner
Oct 26 all day	Delmarva Hamfest
Oct 28 at noon	Lunch at Holiday City Diner

NEXT MEETING:

Thursday October 3 at 7:00PM

Meeting Rm. #1
Holiday City South Clubhouse
Santiago Drive at Mule Road
Toms River, NJ

Luncheon at the Fusion Buffet

Wednesday, October 9, at Noon



Our club members gave the Fusion Buffet Chinese Restaurant a definite thumbs-up when we were there in April, so we're going back on October 9 at noon. This is another opportunity for us to share a meal with our wives, friends, and lots of other club members. It is located at the intersection of Rt. 9 and Rt. 571, right at the inside corner at the middle of the Indian Head Mall. So mark October 9 accordingly on your calendar. The cost is still only 10 dollars, which includes tax and tips and a maybe little left over for the club treasury.

Happy Birthday to:

Ray Lauterbach KC2GQN
Larry Puccio K2QDY
Don Smith W2III
Bob Wilson KA2WPL
Charlotte Militano



Happy Anniversary to:

Janice & Larry Loscalzo
Charlotte & Joe Militano



HCARC Minutes of Sept 5, 2013

Meeting called to order at 7:03pm by Club President Carl Lee W2PTZ.

The Pledge of allegiance was taken by the members.

The introduction of all in attendance was made (16 present).

The minutes of the August meeting were read by Carl and accepted.

The treasurer's report was made Larry Puccio K2QDY and accepted by membership.

Bank service fees of \$10.00 per month were questioned by Larry and he is going to investigate, in the search for "no fee" account.

Heath and Welfare report, John Hann K2JWH has family health problems, and Dave Ottenberg WA2DNJ is going to cardio therapy.

Skyhook report by John Roberts KQ4WR. John asked for more input for publication. He explained proposed upgrading of layout including color he is working on.

President Carl Lee presented service award certificates to Stan Stafiej KB2PD and Ed Picciuti W1EAP for serving on excess of 50 VE sessions each.

President Lee opened a question session. [RF] Noise problems were discussed and the membership contributed to the discussion.

Larry Puccio explained how to use the ARRL to return QSL Cards (if you are a member).

There was discussion on future programs with unanimous endorsement of the way the programs are being presented .

Meeting was suspended at 7:45pm for coffee.

Meeting resumed at 8:00pm.

Volunteers for club offices were entertained informally.

Carl Lee as President

John Roberts as Vice President

Larry Puccio as. Treasurer

Ed Picciuti as Secretary

Doug Poray will accept Membership chair due to Murray Goldberg KD2IN stepping down.

Carl Lee requested each attendee explain the antenna(s) they use and their xmitter along with the bands worked.

The members shared their experiences with one another.

A very interesting meeting.

Meeting closed 8:45pm

Ed Picciuti W1EAP

Ocean County ARES® News – October

The annual Juvenile Diabetes Foundation Walk is still scheduled for October 6th this year at the Seaside Heights Boardwalk despite the fire in Seaside Park. The walk will be modified to get around the damaged area and I probably will not know the route details until the morning of the walk. We need to treat the event as an emergency situation and be prepared for anything. After reviewing the report of the cause of the fire in Seaside Park, I doubt if I will ever trust another power outlet anywhere on the boardwalk. All the more reason to use battery power with solar charging. The event normally starts at 10:00 AM, but volunteers are asked to report by 8:00 AM to ensure they get breakfast, get signed up and receive assignment instructions and have ample time to get to their assigned station.

Net Control will be established between 7:00 and 7:30 AM and will use 145.170 MHz, WA2RES/R as a talk-in. A lunch will be served after the event at the Northern end of the walk. If you are interested in being an operator, please email me at WX2NJ@comcast.net

So far, I only have two volunteers.

Last month I talked about co-channel interference to the 145.170 MHz repeater in Manchester. It would appear some minor changes I made to the receiver surge protector and jumper cable made all the difference. The surge protector was very corroded and it looks like it was the source of receiver noise for many years. The New York repeater signal is still strong, but the PL control of the repeater prevents false keying. There are still many repeaters throughout the country in use without PL, but in our area it is a necessity.

About a week ago, Yahoo decided to make some major changes to their Yahoo Groups and it has really stirred up some of the group owners and /or moderators.

Continued on page 3

Ocean County ARES - Continued from page 2

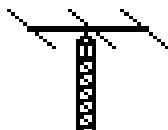
Many group functions no longer work and it is hard to navigate the site. Many groups have sensed a delay in messages and I have personally seen this happen with ARES. Yahoo never announced any of the changes to the owners or moderators and it certainly would have been courteous to do so. I doubt if the old format will ever be returned, so everyone just has to make the best of the situation.

73 de WX2NJ
 Bob Murdock
 Ocean County Amateur Radio Emergency Service® EC

70 Centimeters (420-450 MHz)

This band is open to all classes of ham license, but is shared with other services in some areas.

- 420.00-426.00 MHz video carrier control links and experimental
 ATV repeater or simplex with 421.25
- 426.00-432.00 MHz video carrier frequency
 ATV simplex with 427.250-MHz video
- 432.00-432.07 EME (Earth-Moon-Earth)
- 432.07-432.10 Weak-signal CW
- 432.10 70-cm calling frequency
- 432.10-432.30 Mixed-mode and weak-signal work
- 432.30-432.40 Propagation beacons
- 432.40-433.00 Mixed-mode and weak-signal work
- 433.00-435.00 Auxiliary/repeater links
- 435.00-438.00 Satellite only (internationally)
 ATV repeater input with 439.250-MHz
- 438.00-444.00 video carrier frequency and repeater links
- 442.00-445.00 Repeater inputs and outputs (local option)
- 445.00-447.00 Shared by auxiliary and control links, repeaters and simplex (local option)
- 446.00 National simplex frequency
 Repeater inputs and outputs (local option)
- 447.00-450.00 See www.arcc-inc.org/



Internet and e-Mail Address Links

Internet addresses and most callsigns in SKYHOOK are now hyperlinks to web sites or email addresses. If clicking on the link does not bring up what you want, copy the address and paste it into your search box.

How to Get SKYHOOK

SKYHOOK comes to Club members, and to others who have requested it, by e-mail. It is also available from www.hcarc.us, at which you will also find back-issues.

Our VE Crew

Murray [KD2IN](#), John [K2JWH](#), Ed [W1EAP](#), Larry [K2QDY](#), John [KQ4WR](#), Stan [KB2PD](#), Steve [N2WLH](#), Kevin [W2FA](#), Walter [KC2LFD](#), Paul [N2QXB](#), Larry [WA2VLR](#).

License exams are given 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.

Directions: Go to Mule Rd. and to the corner of Santiago Dr. Turn into Santiago Dr., then into the parking lot in front of the pool. Enter bldg. on right

CLUB COMMITTEES

Refreshments: Ed Baranowski

Webmaster: Steve [N2WLH](#), Carl [W2PTZ](#)

Publicity: Ed [W1EAP](#)

Programs: Carl [W2PTZ](#) 732-237-2421

Sunshine: Dave [WA2DJN](#)

Field Day: Larry [K2QDY](#)

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

Skyhook: John Roberts [KQ4WR](#) 732-350-1162

Fund Raising: vacant

Membership: Murray [KD2IN](#)

**HOLIDAY CITY AMATEUR RADIO CLUB
 Toms River, New Jersey**

Web Site www.hcarc.us

President	Carl Lee	W2PTZ	732 237-2421
Vice President	vacant		
Secretary	John Hann	K2JWH	609 660-0985
Treasurer	Larry Puccio	K2QDY	732 349-2950
Executive Board	John Roberts	KQ4WR	732-350-1162
Executive Board	Ed Picciuti	W1EAP	732 736-0955
Executive Board	Don Smith	W2III	732 505-4821
W2HC Trustee	Don Smith	W2III	732 505-4821

Membership is open to all interested persons. Ham license is not required. Dues are \$20.00 per year, payable Jan 1st. Members joining during the year will have the dues prorated. Family membership \$30.00.

Meetings are held on the first Thursday of every month, at 7:00 pm. Location: Meeting Room #1 in the Holiday City South Clubhouse. Directions: Go to Mule Rd. and to the corner of Santiago Dr. Turn into Santiago Dr., then into the parking lot in front of the pool. Enter bldg. On right.

The SKYHOOK is published monthly.

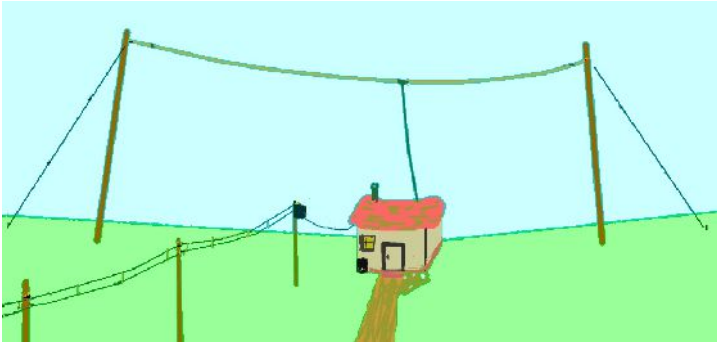
Editor and Publisher:

John Roberts [KQ4WR](#) phone: 732 350-1162 E-mail KQ4WR@arrl.net

Send all newsletter items to: John Roberts

7 Lincoln Ct. Whiting, NJ 08759-1505, or e-mail KQ4WR@arrl.net

Dear Elmer, What is Q?



Dear Friend,

Q stands for Quality Factor.

It's the ratio of the current being exchanged between the capacitor and inductor of a resonant circuit, to the current needed to keep it running.

The higher the Q, the sharper the resonance.

Technically, it's pretty simple, so bear with me. Any single resonance, even a mechanical resonance, can be simplified to just an inductance (such as a coil), a capacitance (a capacitor or "condenser"), and a resistance (such as a resistor), all connected in series.

During each cycle, current flows back and forth between the inductor and the capacitor. Because that current has to flow through the resistance, each cycle uses up some energy as power in the resistance.

At the resonant frequency, the inductance and the capacitance cancel each other, leaving only the resistance. **Reactance and resistance are orthogonal to each other, like Northward and Eastward, or Length and Width.** The inductive reactance, $X = 2 \pi f L$, increases with frequency, while the capacitive (negative) reactance, $X = -1/(2 \pi f C)$, becomes smaller with frequency, so at some frequency they perfectly cancel each other. That's the resonant frequency.

The Q of a series resonant circuit is the ratio of the inductive (and capacitive) reactance (at the resonant frequency), X, to the series resistance, R. So, at resonance, $Q=X/R$.

Notes:

In real life, the resistance is the total of several resistances that represent a number of things, such as

losses the coil, losses in the capacitor, power needed to drive the next stage of amplification, or power radiated by an antenna. Likewise the inductance includes the inductance of wiring, and the capacitance includes "stray" capacitance such as between turns of the coil.

Inductance and capacitance can have both current and voltage without using up power, because the direction of energy flow in the first and third quarter cycles is reversed in the second and fourth quarters.

Some circuits are easier to picture as a parallel resonant circuit. There an inductance, a capacitance, and a resistance are all connected in parallel. In that case, the resistance will be a high value, rather than a low value, and the Q is then the ratio of resistance to reactance, rather than reactance to resistance.

One way you can measure the Q of a circuit is by applying an unmodulated signal, then tuning a little higher, until the resonant signal level drops by 3db (half an S unit). Call that frequency H. Then tune down past the peak to where the level is again 3db less than the peak level, and subtract that frequency from frequency H. That's the 3db bandwidth. **The Q is the peak frequency divided by the 3db bandwidth.**

73, *Elmer*

DECLASSIFIED ADS

For Sale

MFJ 986 Antenna Tuner, has internal SWR meter, can handle 1500WPEP. \$100.



Ameritron AL-811 600WPEP Linear. Make an offer. Ed Picciuti W1EAP 732-736-0955.

Declassified Ads are free. To post one, contact the Editor.

Rent a Station

You can subscribe to a service that sends you what appears to be, and works like, a real HF radio. But it lacks all the RF components. It's just the front panel with 2-way telemetry which links it to any one of several real world-class ham stations which you actually do operate from your not-so-dummy front panel. The speaker, display, all the buttons, knobs and front panel jacks work just like on the transceiver it's controlling. [But I suspect that QSK response would be slow due to link delay.]

By "world class" I mean like kilowatt stations on mountains with towers supporting stacked Yagis on all bands. It costs \$3000 to \$5000 a year for the service, plus a charge per minute of use, but that's less than you'd spend on a DXpedition, and you don't even have to leave home. Is it legal? The article in QST said yes, it's as legal as working 2-meter stations via a repeater. See www.remotehamradio.com or May (not April) 2013 QST page 59.

AUG-SEP HOW'S DX

From: Aug15th through Sep 14th:
Russ, WA2VQV worked:



Date	Callsign	Band	Entity	Grid	Dist&Dir	C/IOTA
8/17	CV5A	15 RTTY	Uruguay	GF15	5300 SSE	SA-030
9/7	EM0I	20 RTTY	Ukraine	KM55	4800 NE	EU
9/9	GW3KHZ	17 CW	Wales	IO81	3380 NE	EU-106
9/9	HP0INT/2	15 CW	Panama	HJ08	2170 S	NA-170
9/12	HP0INT/2	15 CW	Panama	HJ08	2170 S	NA-202
9/7	HP0INT/3	15 CW	Panama	HJ08	2170 S	NA-071
9/14	HP0INT/9	15 CW	Panama	HJ08	2170 S	NA-203
9/14	JW5E	20 SSB	Svalbard	JQ78	3530 NNE	EU-026
9/5	ON7TQ	20 SSB	Belgium	JO20	3700 NE	EU
9/14	S561EB	17 SSB	Slovenia	JN76	4270 NE	EU
9/2	SV2CQB	20 CW	Greece	KM17	4970 NE	EU
9/4	T10VB	30 CW	Transnistria	KN46	4830 NE	EU
9/6	T10VB	20 CW	Transnistria	KN46	4830 NE	EU
8/23	TM0SM	15 SSB	France	JN09	3620 NE	EU-081
9/7	UT0U	20 SSB	Ukraine	KM55	4800 NE	EU
9/7	YL5T	20 SSB	Latvia	KO26	4250 NE	EU
8/22	YW5X	20 SSB	Venezuela	FK60	2090 SSE	SA-054

Monday Noon Get-togethers

After several months of switching venues, we've decided that the simpler schedule was a better schedule, so we're back to using the Holiday City Diner exclusively. Therefore, the current schedule for the Monday Noon Lunch Get-together is now just the Diner every two weeks.

Delmarva Hamfest

October 26, 2013 at the Sussex Tech High School, on US9 in Georgetown Delaware.

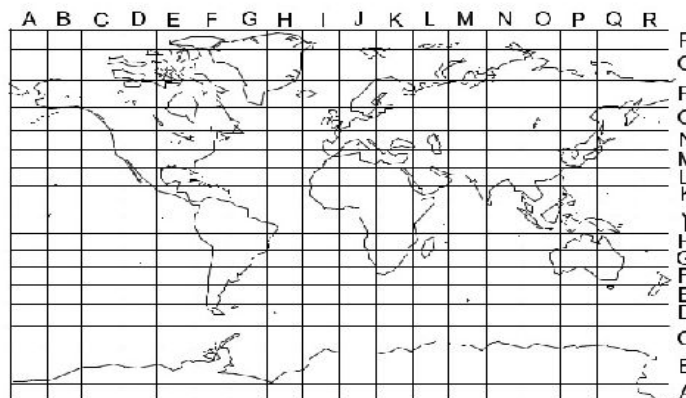
www.radioelectronicsexpo.com Save gas; relax on the Cape May - Lewes Ferry, then follow US9 about 17 miles WNW. Save money; Delaware has no sales tax. Talk-in 147.090+ PL

Daylight Savings Time Ends Nov 3

Of course you know to convert DST to Standard Time, you subtract an hour. To convert Eastern Standard Time to UTC ("Zulu time"), add 5 hours. Remember that after 7pm, it would be the next day, because if the time is in UTC, the date will also be in UTC. Yeah, I know you knew that. It's just a reminder.

CQ WW SSB Contest

Some DX operators seem to think of US and Canadian hams as QRM, but there's at least a few DX contests in which they actually try to contact us. The most popular one of these is the CQ World-Wide SSB Contest. The rules are simple; the "exchange" is just a signal report and your CQ zone. Our CQ Zone is 5, so the exchange might be "Five Niner, Zero Five". Check out www.cqww.com for more information.



Some DX Opportunities for October

CALL	DATES	BANDS	MODES	QSL	C/IOTA	ITU	CQ	GRID	DX & DIR
3D2GC	Oct12-Oct15	160-10m	cw ssb	LZ1GC	OC-016	56	32	RH82qf	7964 W
3D2GC/p	Sep27-Oct11	HF	cw ssb	LZ1GC	OC-060	56	32	RH82	7960 W
6V7S	Oct22-Nov27	HF		RK4FF Dir	AF	46	35	IK14hq	3826 E
6V7T	Oct09-Oct17	40-10m	ssb psk	F5RAV	AF	46	35	IK14ll	3852 E
6V7T	Oct26-Oct27	40-10m	ssb psk	F5RAV	AF-045	46	35	IK14gq	3824 E
9L1JT	Oct16-Oct21	160-10m		K4ZIN	AF	46	35	IJ38jl	4318 ESE
9N2YY	Oct02-Oct05	17-10m	ssb	LotW	AS	42	22	NL36im	7685 NNE
A52YB	Oct06-Oct10	20-15m	QRP cw ssb psk	DK4YB	AS	41	22	NL47ml	7220 NNE
AH0KT	Oct03-Oct07	HF-6m		JH8PHT	OC-086	64	27	QK26to	7765 NW
AH2EA	Oct17-Oct21			JF2WGN	OC-026	64	27	QK23jl	7980 NW
C82DX	Oct15-Oct22	160-10m	cw ssb rtty	LotW	AF	53	37	KG54qb	8145 ESE
CE0/XR0ZR	Oct08-Nov20	160-6m	cw ssb rtty	LotW	SA-005	14	12	FF06oi	5095 S
CY0P	Oct01-Oct11	160-10m	cw ssb rtty	VE1RGB	NA-063	9	5	GN03bw	0785 ENE
D44TXT	Oct19-Nov07	80-6m	ssb rtty psk	DL7AFS	AF-005	46	35	HK85eb	3487 ESE
E51YIV	Oct09-Oct13			IZ0YIV	OC-013	62	32	BG08ct	6923 WSW
E51YIV	Oct13-Oct17			IZ0YIV	OC-083	62	32	BH01cd	6821 WSW
FH/TO2TT	Oct03-Oct17	160-6m		OQRS	AF-027	53	39	LH27nd	8337 E
FM/TO4FM	Oct05-Oct20	HF		LotW	NA-107	11	8	FK94mq	1923 SSE
FO(TX5D)	Oct02-Oct14	80-10m	cw ssb rtty psk	LotW	OC-114	63	32	BG66aa	6479 WSW
FR/DJ7RJ	Sep28-Oct02	160-10m	cw ssb	DJ7RJ Dir	AF-016	53	39	LG78	9240 E
H44MS	Oct03-Nov26	160-6m			OC-047	51	28	QI90vm	8524 WNW
JD1B	Oct24-Nov03	160-6m	ssb cw rtty	JD1BOI	AS-031	46	27	QL17cb	7249 NNW
JW8DW	Sep25-Oct03	80-10m	cw ssb rtty psk	LotW	EU-026	18	40	JQ78	3530 NNE
K9W	Oct07-Oct18			LotW	OC-053	65	31	RK39hh	6776 NW
KH0M	Oct10-Oct14	HF		JF1VXB	OC-086	64	27	QK26to	7765 NW
PJ2/K5JP	Oct08-Oct15			K5JP	SA-099	11	9	FK52kg	1940 S
PJ2/W5BOS	Oct08-Oct15			W5BOS	SA-099	11	9	FK52kg	1940 S
TN2MS	Oct12-Oct24	160-10m	cw ssb rtty	LotW	AF	52	36	JI55we	6227 E
V47JA	Oct10-Nov10		ssb	LotW	NA-104	11	8	FK87pg	1713 SSE
YN2N	Oct01-Oct16	160-6m	cw ssb rtty	LotW	NA	11	7	EK71aw	2065 SSW