

The SKYHOOK



HOLIDAY CITY AMATEUR RADIO CLUB

www.hcarc.us

January 2018

Toms River, NJ

The HCARC January 4th Meeting

We'll be having our regular HCARC meeting at 7pm on Thursday, January 4, 2018, weather permitting.

Ocean County ARES® News

January, 2018

I would like to thank everyone who attended the annual ARES holiday party/dinner on December 20th at the Ocean County EOC. A special thanks to Keith and Barb, who prepared several trays of food and to Glen for his deviled eggs. Also thanks to Pete and Diane for taking care of beverages and the table setup for the event.



Nancy, Barb, Keith and Nick at the 2017 ARES Holiday Party

Congratulations to John, N2LD, who was awarded an Assistant Emergency Coordinator certificate and joins the Ocean County ARES staff.

Tom, N2XW and Keith, KC2OON, gave a presentation and demo on how to use an Openspot on DMR with a Fusion HT.

The end of November marks the end of hurricane season and December 21st is the start of winter. Skywarn nets will be held as required for snow reports and several have already been held. As Tom, N2XW assumes the role of SNJ SEC on January 1st, Keith – KC2OON will take over as Skywarn Coordinator.



2017 ARES Holiday Party/Dinner

On December 18th the ARRL announced that major changes are coming to the Amateur Radio Emergency Service. ARES group identification starts on January 1st and many other changes are coming in the months ahead. These changes will be published as I find out about them.

The Berkeley D-Star antenna has been installed at the 120 foot above ground level and we are waiting for ARCC to approve the modification to our coordination to relocate from Harvey Cedars to Berkeley. The frequency pair of 445.36875/440.36875 will be retained for D-Star.

There is no ARES meeting in February since we always have poor participation due to the weather, so the next ARES meeting is the third Wednesday in April. It was suggested that we hold the cancelled SET drill that was to be conducted this past October at the end of April 2018. It would involve field setups in one or two Ocean County parks and would give us a chance to also use NVIS antennas on HF. Keep this in mind. More to follow in future newsletters.

73 de WX2NJ

Bob Murdock

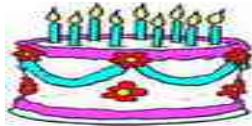
Ocean County Amateur Radio Emergency Service® EC

**NEXT REGULAR MEETING:
Thursday January 4 at 7:00 PM
Bldg A, Meeting Room 1
Holiday City South Clubhouse
Santiago Drive at Mule Road
Toms River, NJ**

Say Happy Birthday To:

Murray Goldberg KD2IN

Ed Picciuti W1EAP



VE License Exam Session Report



Sal Bernardo of Freehold was the lone applicant at our December exam session. He passed the Tech test, so as of December 21, is now the owner of station KD2OXR.

Our VE team gives exams for Technician, General and Extra Class licenses at 6:30 or 7:00pm on the 2nd Wednesday of each month, unless there are no applicants. To take an exam, be sure to call Larry Puccio at 732-349-2950 for an appointment.

Measuring Current

By Bob Buus, W2OD

The first crude measure of continuous electrical current was the frog galvanoscope used by Galvani in the late 18th century. However, the discovery by Oerstad that a compass needle is deflected by a current-carrying wire led to much more precise (and sensitive) means of measuring electrical current.

Consider placing a wire under a compass and orienting the wire so it lines up with the north-pointing compass needle when no current is in the wire. Now if current is applied through the wire, the compass will deflect from north with the deflection increasing as the current increases and the sensitivity decreasing as the compass is moved further from the wire. Ampere showed that the magnetic field within a loop of wire is nearly uniform so placing the compass in the center of a wire loop makes the sensitivity of the measurement less dependent on the position of the compass with respect to the wire. Furthermore, winding several turns of current-carrying wire around the compass multiplies the sensitivity by the number of turns used.

It can be shown that the angle the compass is deflected from north is equal to the tangent of the ratio between the magnetic field produced by the

current carrying loop and the earth's magnetic field. Maximum accuracy is obtained when the two fields are equal so the compass points 45 degrees from north. Such devices were called "tangent" meters or later, tangent galvanometers.

In 1825 an Italian named Leopoldo Nobili (1784-1835) invented an "astatic" galvanometer which used opposing magnets on a common compass shaft so his galvanometer did not have to be oriented with respect to the earth's magnetic field. In 1858 Lord Kelvin (1824-1907) vastly increased the sensitivity of the galvanometer by putting a small mirror on the compass shaft and measuring very minute deflections through a beam of light reflected off the mirror.

The next improvement came in 1882 when Jacques-Arsene d'Arsonval placed the current-carrying loop in a fixed magnetic field created by a permanent magnet so the rotation of the moving coil was an indication of the current flow. This was further refined by Edward Weston (1850-1936) who immigrated from England to Newark, NJ and manufactured an extensive line of portable panel meters which can still be found at swap meets. So now you know how the analog panel meter came about.

The Christmas Present

That Changed My Life

By Urb LeJeune W1UL

Introduction

No one called me a nerd when I was growing up in Hillside, NJ although I could have been the poster boy for what we know today as a nerd. Maybe it was because Dr. Seuss hadn't created the nonsense word "nerd" for an imaginary animal in "If I ran The Zoo" until 1950. By then I was already W2DEC.

During my pre-teen years, the most common title used to describe me was precocious. Other words included weird, crazy, studious, and a loaner, to name a few of the nicer titles. I lived on a small farm and there were no kids my age close at hand, so I became an expert at entertaining myself. I convinced my parents that I should have a subscription to Popular Science when I was 11 years old. When the magazine would arrive

every month, I would disappear for a few days while reading the magazine cover to cover, including advertisements. One month the featured article described the manufacturing of industrial diamonds. "Oh ha," I proclaimed to myself, I can do that. The end result was almost a disaster, but that's a story for another time.

My Favorite Christmas Present of all Time

My parents realized my isolation was starting to make me both crazy and anti-social, so my 1944 Christmas present shortly after my 12 birthday, was a one-tube radio kit. It was so cool. It was built on a one foot square piece of plywood. The components were mounted using Fahnestock connectors screwed into the plywood. The kit had an "A" battery that was the size of a small shoe box. There was another box of parts including an earphone. My folks gave me the present about nine in the morning, and they assumed it would keep me busy for at least a week. By lunch time music was emanating from my earphone.

Back in those days very few radio stations stayed on the air 24 hours a day. They would sign off at either 11 or 12 o'clock, and like magic, another station further out West would take its place. Since it was late December you could follow the clock with stations to the Rocky mountain area before the east-coast stations started signing on again. It was great fun, but my grades were not helped with my midnight DXing.

Big Discovery

After a few months of broadcast band DXing and spending a good part of my allowance on replacement "A" batteries, I started to get bored. I had become fascinated with the variable capacitor (back then I had no idea what it was called) which controlled the frequency. I wondered what would happen if I spread the end plate out a little. What the heck, I could always bend it back. I grabbed my long-nosed pliers and gave it a tug, and it broke right off. I was crestfallen; I had destroyed my favorite toy. I spun the knob around and low and behold I was hearing non-broadcast stations that I had never heard before. I was listening to stations above the high end of the broadcast band!

After a few weeks of mapping my new territory, boredom again started to set in. Dare I take off another capacitor plate? I thought no; I had pushed my luck to the limit as far as capacitor modifications. However, I did notice there was a large coil of wire connected to the ends of the capacitor (again I had no idea of parallel components.) This time I was smart enough to think through the modification, and how it could be

Our VE Crew

Larry [K2QDY](#) (Liaison) 732-349-2950,
 Urb [W1UL](#), John [KQ4WR](#), Stan [KB2PD](#), Steve [N2WLH](#),
 Murray [KD2IN](#), Paul [N2QXB](#), 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: Tony [KD2GSO](#) 732-930-5779
Webmaster: Steve [N2WLH](#) N2WLH@yahoo.com
Publicity: Paul [N2QXB](#) 732-279-3911
Programs: Tony [KD2GSO](#) 732-930-5779
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	Joe Fiorino	KC2OAN 732 512-7296
Vice President	Billy Locke	KD2MHA 732 281-0151
Treasurer	Larry Puccio	K2QDY 732-349-2950
Secretary	Marge Penn	KD2LNT 732-736-0115
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.-

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 Editor and Publisher:

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 e-mail KQ4WR@arrl.net 732 966 4665

reversed. I got out my trusty soldering iron and disconnected one end of the coil, took off about five turns, and soldered the newly exposed wire back onto to the mounting lug. Eureka, I was hearing a wholly different group of stations. Almost all of the stations produced by my experimentation were one-way broadcast. One day I heard two guys talking to each other. It was an event that would change the whole direction of my life. I was fascinated; these stations had call letters but they were different. They had a number in the middle! I wanted to become one of those people.

I went to an Uncle who had a lot of worldly knowledge. His advice was ignore them; they're ham radio operators and they're harmless. When I wouldn't give up my goal, I told my Uncle that I wanted to become one of "them." He told me to go to the library and ask for a book about ham radio. The librarian pulled out a copy of the ARRL Handbook. I renewed it so many times she finally said, "Keep it; we're getting a newer version." I would read about a half hour a day and practice Morse code as well. Back then you had to do 13 WPM straight away. And then the hormones set in. I was about 14 and I discovered girls. Ham radio went onto the back burner for almost two years. Fortunately, I came to my senses and picked up where I had left off. On the day after Thanksgiving in 1949, when I was 16, I made the trip to NYC and took and passed my first FCC license exam. For good measure, I passed my Second Class Radiotelephone license on the same day.

Epilogue

It is now obvious that receiving that one-tube radio kit was the most fortuitous event in my life. It pointed me to several careers, was responsible for getting me into a six and a half month school at Fort Monmouth, NJ, and keep me out of combat during the Korean War. In addition, ham radio introduced me to a huge number of fantastic people. During my late teens through my late twenties, I kept showing up at the right place at the right time, frequently for the wrong reason.

Thanks Mom and Dad for the greatest present ever.

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Check Out Our Tuesday Evening Net



Our friendly Holiday City Amateur Radio Club Net "meets" Tuesday evenings at 7:00 PM on the WA2JWR, 146.655 MHz, repeater. Like most repeaters in our area, the PL tone is 127.3 Hz, and has a -600 kHz input offset.

All are welcomed, and the topics are varied. We have a very congenial group and would like to hear from you. Usually there is a designated net control, however the net is also free running so why not join us.

Website Of The Month

by Tony KD2GSO

Pinterest.com

Pinterest is a web and mobile application company that operates a software system designed to discover information on the World Wide Web, mainly using images and on a shorter scale, GIFs and videos.

So how does relate to ham Radio? First go to Pinterest.com and for an example type in "dipole antenna" in the search box. You will be presented with a list of pictures and when you find one that catches your interest, click on the picture and you will see a "visit" box and when you click it you will go to the site with the information that you want. Want to save this site, just click the "pin" box and you can make your own category on how you want to save your info. To make the site even more useful you should register (user name and password) and you are ready to go. You may be surprised at the amount of information there is on Ham Radio. Enjoy.

Due\$ Are Due January 1



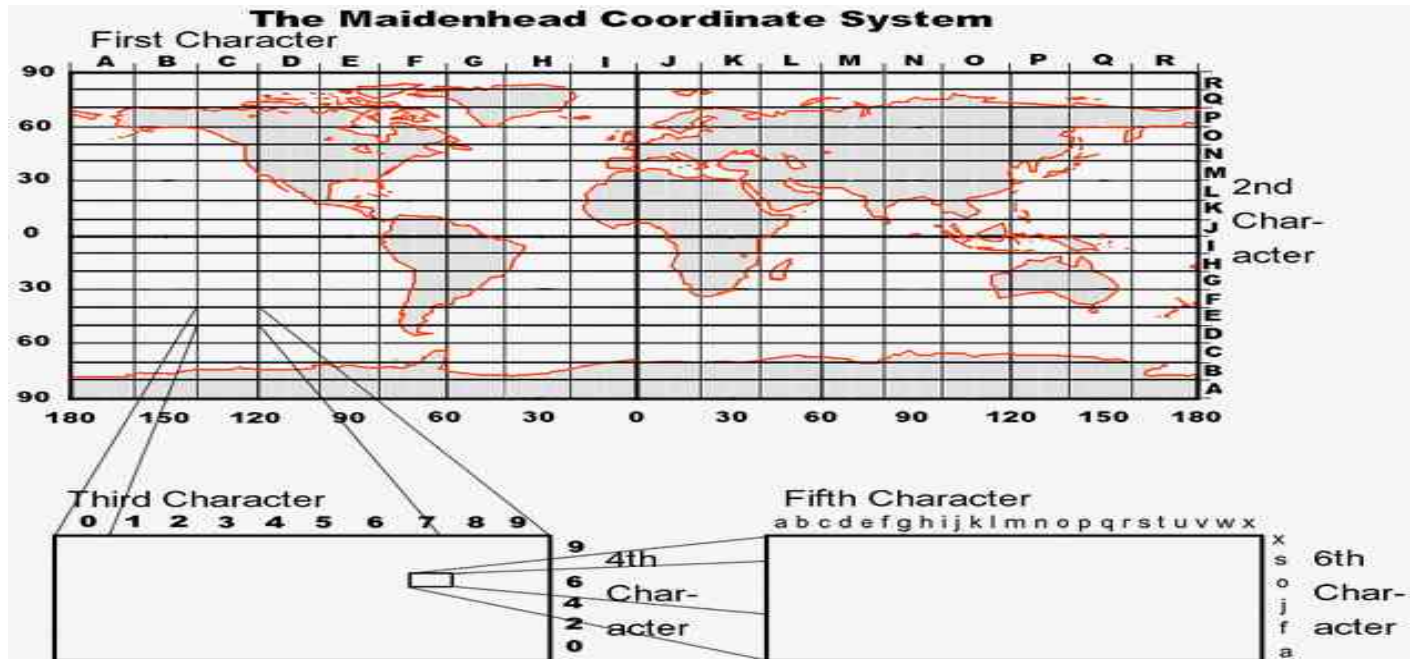
The Dusenbergs are back to remind us that our annual dues are due on January first. See our treasurer, Larry K2QDY, or send a \$25 check, payable to Holiday City Amateur Radio Club, to Larry Puccio, 22 Salinas St, Toms River NJ 08757. (No, it's not Larry's car.)

Russ Young WA2VQV DX Report

All stations listed were worked by WA2VQV using an MFJ three-foot loop in his attic. Distances and directions given are relative to Holiday City South.



Band	Date	Time	Worked	Entity	C	ITU	CQ	Grid	Miles	Dir
7000	Nov 25	0112	YT5A	Serbia	EU	28	15	KN04gv	4557	NE
7000	Nov 25	0125	EA5RS	Spain	EU	37	14	IN80dj	3620	ENE
7000	Nov 25	0126	TK0C	Corsica	EU	28	15	JN42ma	4164	ENE
7000	Nov 25	0130	IR4M	Italy	EU	28	XX	JN62ma	4343	ENE
7000	Nov 25	0132	CR6K	Portugal	EU	37	14	IM58jp	3400	ENE
7000	Nov 25	0134	9A1A	Croatia	EU	28	15	JN75sd	4338	NE
7000	Nov 25	0140	SN2B	Poland	EU	28	15	KO00aa	4349	NE
7000	Nov 25	0141	OM7RU	Slovak Rep.	EU	28	15	JO80ac	4192	NE
7000	Nov 25	0145	P33W	Cyprus	AS	39	20	KM65ma	5497	NE
14000	Nov 25	1415	M6T	Great Britain	EU	27	14	IO91wm	3506	NE
14000	Nov 25	1423	YT1A	Serbia	EU	28	15	KN04gv	4557	NE
14000	Nov 25	1940	CR6K	Portugal	EU	37	14	IM58jp	3400	ENE
14000	Nov 25	1941	TI7W	Costa Rica	NA	11	7	EK80aa	2154	SSW
14000	Nov 25	1942	EF8R	Canary Is.	AF	36	33	IL28ma	3433	E
14000	Nov 25	1943	VE2FK	Canada: Quebec	NA	04	XX	FO53aa	925	N
14000	Nov 25	1946	PJ4Y	Bonaire	SA	11	9	FK52ne	1949	S
14000	Nov 25	2010	PZ5V	Suriname	SA	12	9	GI24ma	3405	SSE
14000	Nov 25	2022	ZF2MJ	Cayman Is.	NA	11	8	EK99jm	1472	SSW
14000	Nov 25	2026	PJ2T	Curacao	SA	11	9	FK52jf	1942	S
21000	Nov 26	2117	PP5BI	Brazil	SA	___	11	GG87ja	4789	SSE
21000	Nov 26	2118	PX2A	Brazil	SA	___	11	GG87ja	4789	SSE
21000	Nov 26	2119	PS2T	Brazil	SA	___	11	GG87ja	4789	SSE
21000	Nov 26	2120	LT1F	Argentine Rep	SA	___	13	GF06ta	5211	SSE
21000	Nov 26	2121	FG/F6ARC	Guadeloupe	NA	11	8	FK96eg	1807	SSE
21000	Nov 26	2123	ZW5B	Brazil	SA	___	11	GG87ja	4789	SSE
21000	Nov 26	2125	PJ4Y	Bonaire	SA	11	9	FK52ne	1949	S
21000	Nov 26	2126	PJ4A	Bonaire	SA	11	9	FK52ne	1949	S
21000	Nov 26	2129	TI7W	Costa Rica	NA	11	7	EK80aa	2154	SSW
21000	Nov 26	2131	PY2MC	Brazil	SA	___	11	GG87ja	4789	SSE
21000	Nov 26	2137	P40L	Aruba	SA	11	9	FK52am	1915	S
21000	Nov 26	2140	CW5W	Uruguay	SA	14	13	GF16va	5240	SSE
21000	Nov 26	2144	PJ2T	Curacao	SA	11	9	FK52jf	1942	S
21000	Nov 26	2149	AD1C	United States	NA	___	XX	#		
14000	Nov 26	2210	XE2B	Mexico	NA	10	6	EL14aa	1764	WSW
14000	Nov 26	2212	OH8X	Finland	EU	18	15	KP34aa	4068	NNE
14000	Nov 26	2214	VE7JKZ	Canada: Br. Col	NA	02	XX	CO74ma	2517	NW
14000	Nov 26	2216	NP4Z	Puerto Rico	NA	11	8	FK68vm	1557	SSE
14000	Nov 26	2216	WA5SOG	United States	NA	___	XX	#		
7000	Nov 26	2249	DR1D	Germany	EU	28	14	JO31aa	3768	NE
7000	Nov 26	2252	EA7RM	Spain	EU	37	14	IN80dj	3620	ENE



January						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1 HAPPY NEW YEAR	2 HCARC Net 146.655 @7:00pm	3	4 HCARC MEETING 7:00PM	5	6 RTTY Roundup www.arrl.org/rtty-roundup.pdf
7 (contest continues)	8 Noon Lunch at Lisa's	9 HCARC Net 146.655 @7:00pm	10 LICENSE EXAMS by appointment 732.349.2950	11	12	13 N.America QSO Party cw www.NAQP-Rules.pdf
14 (contest continues)	15 9 am Breakfast at HC Diner	16 HCARC Net 146.655 @7:00pm	17	18	19	20 N.America QSO Party ssb www.NAQP-Rules.pdf
21 (contest continues)	22 Noon Lunch @ HC Diner	23 HCARC Net 146.655 @7:00pm	24	25	26	27 CQ 160 cw www.cq160.com/rules.htm
28 (contest continues)	29 9:00 am Breakfast at HC Diner	30 HCARC Net 146.655 @7:00pm	31	HCARC Meeting Feb 1		