

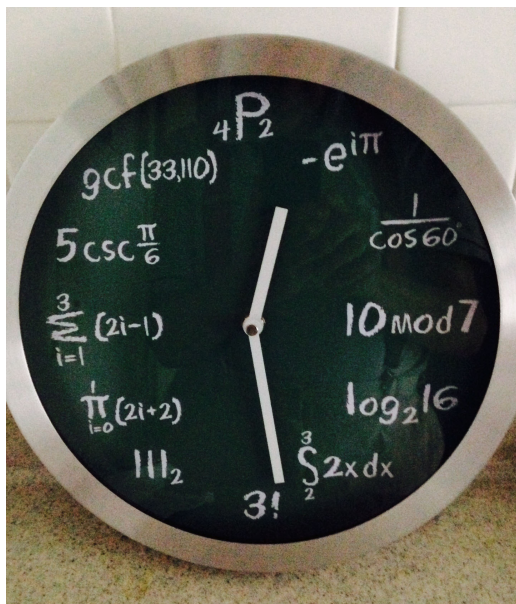


HARMONICS

1916

South Jersey Radio Association

2014



Monthly Puzzle

Don – WA2DUE, wa2due at arrl dot net

Answers from August Puzzle:

Roughly how many miles has planet earth travelled in its elliptical journey around the sun during the last 90 years?

Answer: The distance of the Earth from the Sun is given as 92,960,000 miles. If we assume that the Earth's orbit is circular then one lap around the sun is Pi times the diameter and is 584 million miles. In 90 years that would cover 52.57×10^9 miles.

One of the birthday presents I received was this most unusual clock. This clock has on its face not numerals but mathematical

terms such as $3!$ for the numeral six. Can you figure out what position on the clock these mathematical terms were located: $1/(\cos 60)$? Or $5(\csc(\pi/6))$? or ${}_4P_2$? or $-e^{i\pi}$?

Answer: $1/(\cos 60)$ is 2; $5(\csc(\pi/6))$ is 10; ${}_4P_2$ is the permutation of 4 items taken two at a time and is 12; $e^{i\pi}$ is equal to -1 therefore multiplying it by -1 makes it 1. If you have any questions concerning these, I will glad to answer them or any others that you see on the clock.

For September let us solve these puzzles:

A Cape May trawling company has two trawlers. They leave port at the same time sailing on a course of 090 True for one hour at cruising speed of 10 knots. Boat A drops his net and starts trolling on a course of 025T and boat B does likewise on a course of 170T. Both ships troll at a speed of 4 knots. After 5 hours of fishing boat B experiences total propulsion failure. The captain of boat B calls boat A and request towing back to port. How long will it take boat A cruising at 10 knots to reach the position of boat B? And more challenging, what course must boat A sail to go directly to boat B?

What is the effective voltage to a circuit fed by an AC generator delivering a peak voltage of 425 Volts? If the circuit has a resistance of 500 Ohms, what is the effective current?

Please submit solutions and/or comments to wa2due at arrl dot net.

SOUTH JERSEY RADIO ASSOCIATION

HARMONICS is published monthly and is the official news letter of the South Jersey Radio Association. The SJRA was established on June 16, 1916 and has been meeting continuously since its inception. The club has been affiliated with the American Radio Relay League since 1920.

The SJRA meets each month on the fourth Wednesday, January through September; and usually the third Wednesday, October, November and December; in one of the Meeting Room of the Gibson House at 525 East Main Street, Marlton, NJ 08053. Visitors are always welcome at our general meetings. **“Our Meetings are Smoke Free”**

SJRA operates the K2AA Repeater (145.290 - PL 91.5) located in Medford, NJ and the K2UK Repeaters (146.865 and 442.350 - PL 131.8) located in Pine Hill, NJ. The repeaters are open for use without restriction to all licensed amateur operators.

There are currently over 100 SJRA members active in most all aspects of amateur radio. Membership is by application and is subject to the approval of the Board of Directors. Club dues are currently \$30/yr. for memberships, \$22.50/yr. for retired-person membership (62 plus 1 yr membership), and \$15/yr. for additional family members and student membership. Membership information is available on the K2AA Repeater or from Mary Von Lintig, KV2M, 856-772-6475

EMAIL: [sjra at sjra dot org](mailto:sjra@sjra.org) SJRA's web page: www.sjra.org
 SJRA VE Team: ve@sjra.org is the SJRA/ARRL VUCC card checker
 Joe Fisher, KC2TN, is the SJRA/ARRL WAS card checker

 ★ **Harmonics** is now available on the WEB in pdf format at: ★
 ★ <http://www.sjra.org> ★
 ★ **South Jersey ARRL Section News** is available on the WEB at: ★
 ★ <http://www.arrl.org/sections/?sect=SNJ> ★

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Membership: Mary VonLintig, KV2M
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Contests: Jon Mac Millan, W2MC
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Nets: John Fogleboch, WY2J
Publicity: **Vacant (Please Volunteer)**
Picnic: **Vacant (Please Volunteer)**
Ways & Means: Ray Golley, N3RG
Property: Jon Mac Millan, W2MC
Web Site: Ira Weinstein, W2IRA

Harmonics Staff:

Publisher/Editor: Ted Groke, W2TAG
Alternate Editor: **Vacant (Please Volunteer)**
Circulation: Mary VonLintig, KV2M;
 Jim Vecchiola, KR2T

LOCAL WEEKLY NETS

Monday	K2AA, Medford	145.290 @ 8PM
Thursday	Various Locations	28.405 @ 8PM

Harmonics Deadline

Articles submitted for the next Harmonics will be accepted until Monday, October 6, 2014. Email:
[ted.w2tag at gmail dot com](mailto:ted.w2tag@gmail.com)

SWAP SHOP - For Sale/Wanted ads are free of charge and are accepted for Amateur Radio related items only. While ads are not restricted to SJRA members, there is only limited space available and members have priority for listings. No items will be accepted for inclusion in the Swap Shop from commercial vendors or traders. All ads must be submitted at least three weeks prior to the scheduled SJRA general meeting date.

GENERAL ADVERTISING - Limited commercial advertising is accepted on a space available basis. Annual advertising rates range from \$25/yr (Min 1/8 page) to \$200/yr (Full Page). Information is available from Ken Botterbrodt, K2WB.

Meeting Minutes

Minutes of General Meeting 8/27/2014

The meeting was held as usual, at the Gibson House in Marlton, NJ. It was opened at 1932 by Jon, W2MC. The minutes of the July meeting were approved as printed in Harmonics, motion by N2HQL/N3AVT. Ray, N3RG, gave the treasurer's report, it was approved, motion by KR2T/KV2R.

New members, by Mary, KV2M: Harry Kingsmill, K1NGY. As historian, she found some unlabeled pictures in the files. They appear to be from the 1960's field day.

A moment of silence was held in memory of Rich Wesley, KC2UXV, who became a silent key.

Health & Welfare by Roy, WB2EOD - Birthday list in Harmonics, all August cards are sent out.

Programs: Rich, W2JAZ, handed out and discussed a questionnaire, designed to help him find and schedule programs of interest to the membership.

Programs to come: September, Consignment Auction; October; N1AK, Building a Frequency Counter; November, open: December, Christmas Party.

Harmonics: Ted, W2TAG, still looking for a backup publisher/editor. The usual due dates are for September edition.

VE team: 101 new or upgraded Hams so far. Al, N3AVT, reports, upon questioning, that he has no figures on how many candidates have joined SJRA; however, he also stated that the test sessions are not

aimed at growing SJRA but at the growing of amateur radio in general.

Contests/Events: September VHF/UHF, Sept. 13 and 14; NJ QSO Party October 4 and 5; JOTA, October 18 and 19.

Repeater, by Joe, KC2TN: K2AA/R appears to need a new antenna. The present one has been up longer than any previous unit. The Board plans to sell the existing spare for half its price due to the paint covering it and replace the existing antenna with a new unit. A motion to proceed with this plan was made by Burton, NJ2IT/Rick, W2JAZ, was made and passed without opposition. Joe reports that investigations regarding moving of the CCAP repeaters is ongoing and that no decisions have been made.

Joe, also noted he is still taking orders for *Club Stuff*.

Web team (not present): The submitted 2014 field day scores have been placed on the web site.

100th anniversary committee has met, working on plans for the celebration, including a centennial logo.

New business: Joe, KC2SGV, mentioned that some clubs give new hams tested by their teams a one year free membership. He suggested that we consider doing the same.

Ray, N3RG, Reported that the daughter of a S/K has a tower and some vacuum tubes that need a new home. Taker must remove the tower from its mountings and arrange for a takedown team.

(Continued on page 4)

(Meeting Minutes from page 3)

Recess was held at 2010, prior to a program by Cory, WA2UVV, on Digital Modes and Equipment.

Minutes of Board Meeting September 3, 2014

Meeting was held at the Gibson House, opening at 1930, led by Jon, W2MC. All board members were present except Rich, W2JAZ. President Ken, K2WB, attended by Phone from India.

The Minutes of the August board meeting were approved as printed, Motion: WB2EOD/KV2R.

Ray, N3RG, reported we are up to 106 members, as part of the treasurer's report.

No new members to report. Mary showed more old pictures found in the unlabeled folder.

Programs: Sept- Consignment Auction (W2JAZ not present).

Nets: 2 meter 2x/month, 10 meters net to start soon. Roy, WB2EOD, to check if anyone is around on 9/4.

Repeaters: K2AA/R antenna, Rick, WC2K, is ready to go and awaiting ok, which appears to have come from the membership at the August meeting. CCAP repeaters: Joe, KC2TN to see Ray, WB2NBJ about changeover and asked if we want to do anything about digital modes when we move the repeaters.

Contests: See Minutes of August General Membership Meeting.

WEB Team: We need to transfer domain stuff from Dotster to new server.

Health & Welfare: Roy, WA2EOD, reports that birthday cards are out. He will try to set up a database for members who are unable to drive and match those who regu-

larly attend meetings and live in or pass through appropriate areas.

100th Anniversary- committee met (13 members) , have started planning, working on commemorative logo, a cross between old SJRA logo and 90th anniversary logo. Joe, KC2TN, showed the board a work in progress.

Corresponding Secretary Dennis, AC2FO,-answered a question regarding scheduling of Consignment Auction.

Old Business: Ken, K2WB, contacted our Harmonics printer and reported that they are able to do one off badges for us. Ken to contact Bruce to acquire the artwork. A motion to have the printer be our badge source was made , motion by K2WB/KR2T passed.

New Business: Christmas party: last year seemed to work well, we will attempt to duplicate the affair. We need to find and schedule a caterer asap. KV2R volunteered to help with the arrangements.

Adjourn at 2045.

Submitted by: Lou, N2HQL,
Recording Secretary

SJRA Members Birthdays

September

9, Mark O'Brien, K2AX
11, Alan Cohen, WA3ZKI
11, Matthew Grohgans, N2IDW
13, Alan, Handley, K3WWT
19, Dom Sacca, KD2EPM
28, Michael Tolotta, W2OSD

October

18, Burton Sampley, KC2OUC
21, Jim Vecchiola, KR2T
30, Ken Botterbrot, K2WB

Health and Welfare Co-chairpersons:
Roy, WB2EOD, and Dara, KC2THQ

HAM TECH

Vol 5 No. 9 by John - WY2J

wy2j at arrl dot net

Widely Used Digital Text Modes

Part 5 of 5: DominoEX

Introduction - Last month we explored the MFSK-16 HF mode which delivers outstanding performance in terms of sensitivity and error tolerance when propagating through a poor ionosphere. It does have at least two major faults that preclude its use by many hams. These include an extreme difficulty in tuning in a station due to the very narrow bandwidths and very long signal processing delays in the forward error correction technique employed which cannot be turned off. These delays make rapid turnaround in QSO's impossible. The tuning problem is also complicated by the awkward waterfall display under low S/N conditions that prevent locating the cursor on the required designation point. Murray Greenman ZL1BPU the brains behind MFSK-16 recognized these problems and developed a new mode using the MFSK technique but without the major problems of MFSK-16 which he calls DominoEX and runs on Windows sound card computers. The discussion that follows on DominoEX assumes the reader has read the HAM TECH column on MFSK-16 which appeared last month in the August 2014 issue of Harmonics.

What's Common with MFSK-16 - Both MFSK-16 and DominoEX use a varicode to encode an extended ASCII keyboard but they are not the same. There will be more on this later. Both use similar multiple tone frequency shift keying, MFSK, but DominoEX adds two additional tones for a total of 18. This is to assure minimum inter-symbol interference in severe multipath propagation.

And finally both use forward error correction (FEC) with convolutional encoding and a Vitrbi decoder but unlike MFSK-16 the FEC can be turned off in DominoEX. This increases the typing speed by about a factor of two and reduces the processing delays to the region of RTTY or PSK-31 thus giving it a fast turnaround time. In both modes the FEC uses an interleaver but it is much shorter in DominoEX thus shortening the processing delays relative to MFSK-16. Gray coding has been deleted from DominoEX, I guess it didn't contribute much to performance.

Another Varicode - Since the new modulation used will not tolerate an idle condition, Murray Greenman chose to design a background sub mode into DominoEX. This allows the operator to transmit a second message when not typing and the software can transmit a non-printing character to keep a steady flow of modulation when idle. Typically you could put your call sign and QTH in this message while calling CQ in the main message path. See the operator screen layout in Figure 1 below.

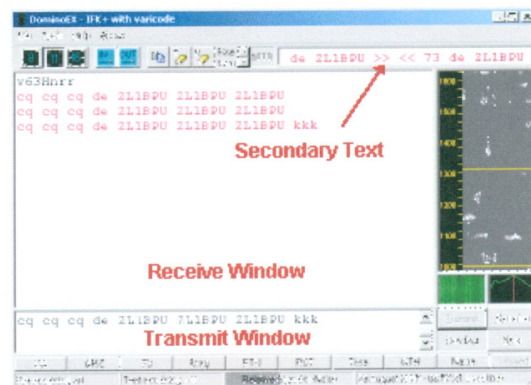


Figure 1. DominoEX Operator Screen.

(Continued on page 6)

(Ham Tech from page 5)

The dual message technique and synchronization issues required a new varicode of which 25 percent is shown in the Table 1 below. There are two columns of 4 bit nibble values shown. The "privar" is the code for the main receive window while the 'secvar' column is for the secondary text window. Note the single nibble values for the seven most often used lower case letters, e, t, o, a, i, n, &r which are coded 1 thru 7 respectively. Not shown is the commonly used space which is coded 0. The balance of the lower case letters, the 26 upper case letters and the 10 numerical digits require two nibbles to code. The lesser used symbols of the 256 ASCII character set require three nibbles along with all the secondary window code. The single nibble values, 0 to 7 play a major role in character synchronization since they are most frequently used.

CHAR	ASCII	PRIVAR	SECVAR	CHAR	ASCII	PRIVAR	SECVAR
@	64	0,9,8	5,9,8	96	0,9,11	5,9,11	
A	65	3,9	4,11,9	a	97	4	3,8,12
B	66	4,14	4,12,14	b	98	1,11	4,9,11
C	67	3,12	4,11,12	c	99	0,12	4,8,12
D	68	3,14	4,11,14	d	100	0,11	4,8,11
E	69	3,8	4,11,8	e	101	1	3,8,9
F	70	4,12	4,12,12	f	102	0,15	4,8,15
G	71	5,8	4,13,8	g	103	1,9	4,9,9
H	72	5,10	4,13,10	h	104	0,10	4,8,10
I	73	3,10	4,11,10	i	105	5	3,8,13
J	74	7,8	4,15,8	j	106	2,10	4,10,10
K	75	6,10	4,14,10	k	107	1,14	4,9,14
L	76	4,11	4,12,11	l	108	0,9	4,8,9
M	77	4,8	4,12,8	m	109	0,14	4,8,14
N	78	4,13	4,12,13	n	110	6	3,8,14
O	79	3,11	4,11,11	o	111	3	3,8,11
P	80	4,9	4,12,9	p	112	1,8	4,9,8
Q	81	6,15	4,14,15	q	113	2,8	4,10,8
R	82	3,13	4,11,13	r	114	7	3,8,15
S	83	2,15	4,10,15	s	115	0,8	4,8,8
T	84	2,14	4,10,14	t	116	2	3,8,10
U	85	5,11	4,13,11	u	117	0,13	4,8,13
V	86	6,13	4,14,13	v	118	1,13	4,9,13
W	87	5,13	4,13,13	w	119	1,12	4,9,12
X	88	5,15	4,13,15	x	120	1,15	4,9,15
Y	89	6,9	4,14,9	y	121	1,10	4,9,10
Z	90	7,9	4,15,9	z	122	2,9	4,10,9
[91	0,10,14	5,10,14	{	123	0,10,12	5,10,12
\	92	0,10,9	5,10,9		124	0,9,14	5,9,14
]	93	0,10,15	5,10,15	}	125	0,10,13	5,10,13
^	94	0,10,10	5,10,10	~	126	0,11,8	5,11,8
_	95	0,9,12	5,9,12	DEL	127	2,10,15	7,10,15

Table 1. DominoEX Varicode for the Alphabet.

The IFK+ Modulation - To greatly reduce the tuning and frequency stability problems Offset Incremental Keying (IFK+) replaced the MFSK modulation. This uses the difference frequency between two consecutive tones rather than absolute tone frequency to define a nibble value. Because of the inter-symbol interference caused by multipath delays in the ionosphere two additional tones and a tone selection management technique had to be added. Thus DominoEX has 18 tones instead of the 16 in MFSK-16. This modulation turned out to be extremely robust without FEC against multipath distortion and tolerant of tuning error of as great as 200 HZ, a 50 to 1 improvement over MFSK-16. The tuning display was redesigned to display fully filtered tones thus allowing good visibility with an S/N down to the limit of the mode. The display became really useful at low S/N unlike the display for MFSK-16. The default mode of DominoEX is no FEC with a selection of 6 baud rates between 3.9 and 21.5 with signal bandwidths between 173 and 524 Hz that support typing rates from 25 to 140 wpm. DominoEX has the rapid turn-around of RTTY and PSK-31 with sensitivity at least as good as PSK-31 and the tolerance for a bad ionosphere that allows operation on 80 meters. See Figure 2 for the 6 modes of DominoEX.

MODE	BAUD	BW	TONES	SPEED	FEC	STONE SPACING
DominoEX 4	3.90625	173Hz	18	~25 WPM	~12 WPM	Baud rate x2
DominoEX 5	5.3833	244Hz	18	~31 WPM	~16 WPM	Baud rate x2
DominoEX 8	7.8125	346Hz	18	~50 WPM	~25 WPM	Baud rate x2
* DominoEX 11	10.766	262Hz	18	~70 WPM	~35 WPM	Baud rate x1
DominoEX 16	15.625	355Hz	18	~100 WPM	~50 WPM	Baud rate x1
DominoEX 22	21.533	524Hz	18	~140 WPM	~70 WPM	Baud rate x1

Table of DominoEX modes. * Default mode (with FEC off)

Figure 2 DominoEX modes and characteristics.

(Continued on page 7)

(Ham Tech from page 6)

FEC - FEC is available as an option and as can be seen from Fig. 2 the typing speed drops by a factor of two. The vari-code has to revert back to that used on MFSK-16 as no convolutional decoder is available for nibble based character coded systems. The FEC coding/decoding is the same as MFSK-16 but the interleaver has been shortened from 10 to 4 stages to reduce delays and the gray coding was eliminated. To assure that the shorter interleaver can do the job against multipath up to 50 ms the DominoEX 4, 5 or 6 modes should be used because of the long tones due to the baud rate X2 tone spacing.

Performance - DominoEX16, the default mode without FEC can reliably copy at -10 dB S/N measured in a 3 KHz bandwidth at 77 wpm using only 260 Hz of spectrum. When the ionosphere gets bad shifting down in mode (lower baud rate) will help the copy and the final act is to turn on the FEC. DominoEX has it all over other real time HF text modes in performance and you can tune it in with the ease of CW. For more information go to <http://www.qsl.net/zl1bpu/MFSK/DEX.htm>.

Next Month - The author lightens up a little with a single issue fun article titled "APRS on the Cheap" or another justification for owning an iPad, an iPhone or both. The last two months of the year HAM TECH will take a different look at our oldest ham radio mode, CW. In November we explore "History and Mythology" then in December "Where is the Signal Processing in CW?" You might find out why you love or hate this mode.

President's Message

Ken - K2WB

Fall will be here soon Autumnal Equinox is September 22nd. If you look carefully the signs are already showing, with a little yellow, or red is starting to appear from the green of summer. This is the best time to spruce up the antenna farm and get ready for the fall radio contest and DX season. Contact Mary, KV2M, or Rich, KV2R, if you would like to get an official SJRA hard hat to help protect you when overhead work is being done.

Get help with any big projects there are many members with knowledge and experience that will help make your project safe and successful.

If you participated in the ARRL September VHF contest, send your log to the league noting the SJRA as your affiliation. This is a club competition; VHF contesting is easy to do and does not require special equipment. Most members are located in grid squares FM29 or FN20

The SJRA is looking for your help. Mary, KV2M, would like to step down in their respective committees (Historian and Membership) after many years of great service to the club. This means we are looking for a **Membership Chairman** and a **Club Historian**. In addition, Ted, W2TAG, would like an **Assistant Editor** for Harmonics. The club does not run itself, it takes the effort of many. FYI: You do not need to be on the board to serve on a committee. Contact me if you are interested in helping the club and make a difference.

The 100th anniversary committee had its first meeting. The committee has 13

(Continued on page 10)

Birthday Fun Facts

Ref.: SJRA Membership Meeting, 27 August 2014

As Membership person, one of my duties is to provide the sign in books for each Membership meeting for members and visitors. I know that some of you members are not signing in. Please do so. You are important and these books will become part of our SJRA History.

For the month of August 2014, I had requested that everyone put his or her birth date next to his or her name (just the month and day). Thank all of you who did this for me. I did this not to be nosey but to confirm an interesting statistic I had read concerning shared birthdays. It goes like this:

The number of people present versus the probability that a pair will share the same birth date

- 5 – 2.7 percent
- 10 – 11.7 percent
- 20 – 41.1 percent
- 23 – 50.7 Percent
- 30 – 70.6 percent
- 40 – 89.1 percent
- 50 – 97.0 percent
- 60 – 99.4 percent
- 70 – 99.9 percent
- 100 – 99.99997 percent

The percentage after 100 gets really long and involved, so I will quit now.

During the Membership meeting of 27 August 2014, twenty-seven of you were good enough to sign in and list your Birth date and Yes, I got a Bingo!

Martin, WB2EHY, and Al, N3AVT, came into this world on 15 February.

Some other interesting observations were:

Lou, N2HQL, 27 August

Jim, KC2SZ, 28 August

Bob, KD2GEO, 29 August

All three right in a row. The Trifecta – win, place and show. Are you three into horse racing?

Rick Lawn, W2JAZ, shares a Birthday with my sister, 15 May

Matt, N2IDW, was born on 9-11. Yes, some good things take place on that date and Matt is one of them.

Here is the breakdown of how many of us were born during each month:

- January – 1
- February – 4 (the winner)
- March – 1
- April – 1
- May – 2
- June – 3
- July – 3
- August – 3
- September – 2
- October – 2
- November – 3
- December – 2

Again, thank you for your cooperation. I will be requesting that you provide me with your birth date after your name for the next several meetings. I really want to test this statistic out and I cannot think of a better place to do this than with the members of the greatest amateur radio club in the world.

73 to All and I am Membership
Mary, KV2M (8 November)

P.S., Maybe our Puzzle Guru Don, WA2DUE. (31 July) can do his monthly puzzle about this interesting statistic and see if anyone can solve it.



Should QSOs from remote stations be given DXCC credit?

By Dan Romanchik, KB6NU

In July, the DX Advisory Committee Report recommended several rules changes for the DXCC program (http://www.arrl.org/files/file/About%20ARRL/Committee%20Reports/2014/July/Doc_27.pdf). Among them, was a recommendation that rule I.9 be changed such that a QSO is acceptable for DXCC credit only when the remote station and the operator's home station location are no more than 200 km apart.

As with any rule change, this precipitated a lot of comment in the amateur radio community. A thread on the eHam.Net forum (<http://www.eham.net/ehamforum/smf/index.php/topic,98348.30.html>) got quite a few comments. N7NG had a nice blog post (<http://n7ng.wordpress.com/2014/03/05/remote-control-dxing-and-dxcc/>) on this controversy.

Perhaps the most strident post on this topic was written by WW1X (<http://ww1x.com/opinion/2014/08/14/in-defense-of-remote-dxcc.html>). He called these recommendations "uninformed, misguided, and detrimental to the future of our hobby." Detrimental to the future of our hobby? Seriously?

Of course, WW1X has a vested interest in this debate. He's the lead developer for RemoteHamRadio.Com, a company that charges other hams to use the "super stations" that they've set up around the world.

Note that the DX Advisory Committee is not saying that amateur radio operators should not use and enjoy these remote stations. All they're saying is that the QSOs made with them, unless they are located less than 200 km from an amateur's home sta-

tion, are not eligible for DXCC credit. I'm sure that if you asked any of the members of the committee they would agree with WW1X that the remote stations serve a very useful purpose for amateurs who are not able to set up their own home stations.

WW1X prattles on about how "DXCC is not a contest. It's not a competition. There are no winners or losers. It's a personal achievement award, plain and simple." This is just silly. Of course it's a competition. As N7NG rightly points out if it's not a competition, why publish the DXCC Honor Roll?

What I think is detrimental to the hobby are hams who use RemoteHamRadio.Com to simply add to their DXCC scores. I see no sense in doing so, and furthermore, where's the personal achievement? Anyone who can afford to pay what they charge-- and it's not a small sum of money--can work the rarest DX with one of those stations.

A friend of mine, Mark, W8MP, is a RemoteHamRadio.Com customer, and it's a boon for him. He loves being able to work DX from his home in a development where no outside antennas are allowed. He's not trying to pad his DXCC score. He does this for the pure love of talking to other hams in far-away places.

When the final decision is made, I hope the DX Advisory Committee goes back to first principles as set forth in FCC Part 97.1 and makes their decision on whether or not allowing DXCC credit for remote station QSOs contributes to "the advancement of the radio art" or is an "extension of the amateur's unique ability to enhance international goodwill."



(Continued on page 10)

The SJRA congratulates the following on their recent achievements:

Keith Hacke
317 Hilldale Rd.
Villanova, PA 19085
Earned his Tech

Forrest Elkins
237 Lenape Ave.
Mays Landing, NJ 08330
Earned his Tech

	Tech	General	Extra	Total
To Date	67	24	12	103

Club Notice

The Health and Welfare team wants to set up a *ride board* for those members who wish to attend meetings but have issues with nighttime driving.

If you are in need of assistance, please send an email to WB2EOD at arrl dot net. Include your name, call sign and town and put *ride needed* on the subject line

We will put out an email call for volunteer drivers using *only* your town.

Once we have a match we will discretely connect drivers to passengers.

Health & Welfare Co-chairpersons:
Roy, WB2EOD, and Dara, KC2THQ

(Presidents Message from page 7)

members seven were present at the meeting. There is a lot to do, the first order of business was to select the "Look" or icon, work has begun on the logo for the SJRA being 100 years.

Lastly, there are number of members of the club who can no longer make it to the meetings for various reasons. In particular there are two members who would really appreciate a lift from the Mt. Holly/Lumberton. Let me know if you can help. The Health and Welfare committee will coordinate riders with drivers. Look for an email from the Health and Welfare. If you can't make it the meeting because of transportation issues, contact Roy, WB2EOD, or Dara, KC2THQ.

As always the SJRA is looking for more members, bring a friend to a meeting. With some luck and encouragement they may even join and become a SJRA member.

(Remote DXCC Credit from page 9)

When he's not writing this column for club newsletters, Dan, KB6NU enjoys working CW on the HF bands and teaching ham radio classes. For more information about his operating activities and his "No-Nonsense" series of amateur radio license study guides, go to KB6NU.Com or e-mail cwgeek at kb6nu dot com.

Wanted

Alternate Editor for SJRA Harmonics. This position does not require previous publication experience (only a computer with internet access) as **I will teach you all you need to know.**
Email: ted.w2tag at gmail dot com

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Email Joe, KC2TN, with orders or additional info: *kc2tn at comcast dot net*

September Meeting:

Fourth Wednesday, September 24, 2014

The meeting commences promptly at 7:30PM in the first floor Meeting Room of the Gibson House on Main Street, Marlton, NJ 08053. Guests are always welcome.

Program For September:

SJRA Annual Members Consignment Auction

Amateur Radio FCC License Testing

The SJRA sponsors *FREE* Amateur Radio FCC License testing on the second Wednesday of each month. The location is: 443 Commerce Lane, Suite 5, West Berlin, NJ 08091. Registration is at 7:00 PM and testing begins at 7:30PM. Walk-ins are accepted.

VE team members can be reached at VE *at* SJRA *dot* org. A calendar and more information can be found on the SJRA web site.

First Class Mail

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