



HARMONICS

1916

South Jersey Radio Association

2017



SJRA Registers Field Day Score Improvement Operating as 7A

Fifty-six SJRA Field Day participants enjoyed Dom's, KD2EPM, cuisine on the June 24-25 weekend while also piling up an astounding 3000 point improvement in the K2AA score. We could do no wrong! It goes to show that radio clubs as well as armies fight with their stomachs. The final K2AA score is expected to exceed 18000 points!

Despite only about a 30 per cent turnout by members, the station seats were manned most of the time. Everyone there seemed to enjoy the three-day event, although a hot muggy air mass only moderated into mild, breezy, dry conditions after much of set-up on Friday was complete. No one was injured, and no equipment was damaged, causing us to declare the event a victory.

One note-worthy change (besides the continually improving food) was the switch from the accustomed 6A entry to 7A (seven transmitters all powered by emergency power. This had been prompted during planning by the fact that SJRA had not recently ranked first in its 6A category despite good scores that easily beat the best scores in 7A and many higher categories. The change was also prompted by increased interest in digital radio by members. Although only about 200 points were scored by the digital station, it is felt that more participation may be forthcoming with an opportu-

nity to experience the mode. It should be noted that digital contacts, like CW, count twice as much as those by phone.

The three CW stations dominated the scoring with 2804 contacts. Both 20 CW and 40 CW were over 1000 contacts, and 80/15 CW was not far behind. With the doubling of QSOs for the fact that they are CW and again doubling due to the use of emergency power, this represents more than 11000 of the 18000 point total. The K2AA phone stations (20, 40, and 80/15 m SSB) totaled 2128 contacts, which doubled due to emergency power use, contributes another 4256 score points. As was alluded to, the new digital station scored 42 contacts for 168 score points. GOTA contributed 193 QSOs for 386 score points, and there were about 2100 bonus points. The attached table completely summarizes the contacts scoring.

Bonus points were scored by the old standbys like emergency power use (700 points), public location (100), information table (100), media publicity (100), ARRL bulletin copy (100), etc. Of course we always seem to have a satellite contact thanks to Joe, KC2TN, but this is always interesting and not over 'til it's over. Welcomed back in presence was Shawn, K2SMD who helped with the Social Media bonus points (100) along with Bob, KE2D, and Joe, KC2TN,. Ken, K2WB, acted as the primary safety officer (100 points), while Rich, KV2R, gave a

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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@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 for SJRA members 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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Awards: Rick Lawn, W2JAZ
Hospitality: Jean Priestley, KA2YKN
Nets: John Fogleboch, WY2J
Publicity: Vacant (Please Volunteer)
Picnic: Vacant (Please Volunteer)
Ways & Means: Ray Golley, N3RG
Property: Jon MacMillan, W2MC
Web Site: Ira Weinstein, W2IRA

Harmonics Staff:

Publisher/Editor: Ted Groke, W2TAG
Alternate Editor: Rick Stoneking, W2RDS
Circulation: Mary VonLintig, KV2M; Jim Vecchiola, KR2T

LOCAL WEEKLY NETS

Monday	K2AA, Medford	145.290 @ 8PM
Fusion on 2 ND & 4 TH Thurs. and 2M SSB on 3 RD Thurs.	Various Locations	145.290 @ 8PM, Fusion 144.270 MHz USB

Harmonics Deadline

Articles submitted for the next Harmonics will be accepted until Monday, August 7, 2017. Email: 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 Membership meeting of June 28, 2017

The meeting, held at the Gibson House was opened at 1930 by Ken, K2WB, with a salute to the American flag. Ken Stated this would be a shortened meeting due to the Annual meeting being held tonite.

Ray, N3RG gave the treasurers report, including 120 paid members. Accepted on motion by N3RG/AC2FO.

Minutes were approved as printed in Harmonics- Motion N2HQL/WB2EOD.

Health & Welfare- no report.

Programs- Not Present- tonite will be Field day videos.

VE team- 2 candidates- 1 for tech, one requested all 3 tests, all were passed.

DX by Jack, N2VW- All listed were over by printing of these minutes- FP-St. Pierre, 4-18 July: 13 Colonies, 1-7 July: OH - Finland 8-9 July "100 year old Finland", call - "of 100 HQ". There is a DXpedition set for 2018, that has a budget of \$760,000.

Contests by John, W2FDJ- 8/5-6 North American QSO Party- CW: 8/19-20 SSB: 9/9-11 ARRL Sept VHF Contest; 9/17-18 NJ QSO party.

Repeater- Joe, KC2FN- No new News, Someone is broadcasting APRS over the repeater.

Meeting Closed at 1941.

Ken Turned control of the Meeting to N3RG , who installed the 2017-2019 Officers and Directors. The Outgoing and In-

coming Officers and Directors were introduced. The Outgoing officers & Directors were thanked for their service.

Ken, K2WB opened a new meeting , the first for the new board, and called for a refreshment break at 1953.

The program for the evening was a playing of older field day videos from the early 2000's

Board meeting of July 5, 2017

Ken , K2WB opened the meeting at 1936- a problem of no internet service had to be corrected before opening. The internet service at the Gibson House was off, and an alternate method needed to be established. Ken Welcomed the new board members, and again expressed thanks to the departing board members.

Minutes of the June board meeting were approved as printed in Harmonics- N2HQL/N2CPR.

Contests by John, W2FDJ- QSO logs due by 7/11. He reported not getting e-mails for "contests @ sjra"- Ken fixed the problem.

Trustee (K2WB)- received no "pink slips from field day.

Treasurer- WB2EOD- reports 199 members (?) approved on motion by W2MC/N2IDW.

Health & Welfare- Birthdays reported to W2TAG- no ill members known.

Programs (Absent)- July Program will be video of 2017 field day.

VE team- Al, N3AVT- 206 tested so

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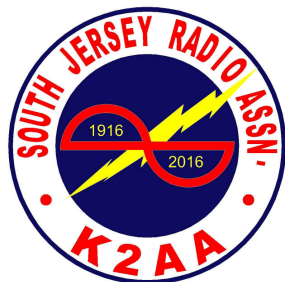
Mode	20M	40M	80/15M	Total
Code Points	3872	4188	3156	11216
SSB Points	1268	2320	670	4258
Digital Points	156	12	0	168
GOTA Points	132	108	146	386
Totals Points	5296	6906	3826	16028

This table shows the K2AA Field Day points distribution; however, the 40 SSB station led all other stations with 1160 contacts (Phone contacts are one point for each contact and CW/Digital contacts are two points for each contact).

(FD Score Improvement Operating as 7A from page 1)

demo on tower safety prior to tower dismantling on Sunday. We were also graced with the presence of Chris (KC2GNQ) who both represents an ARES-served agency (Red Cross) (100 points) and is an elected official (100 points). Numerous members ensured their children managed radio contacts, giving the club an additional 100 bonus points. This shows that any member can contribute, sometimes in unexpected ways to the Field Day effort.

In the end the three important results were that we preserved and honed the emergency preparedness capability, no one was injured, and we enjoyed ourselves. It does not hurt that we are looking forward to No. 1 in 7A when all the results are in.



Bob, K2UT, and Mark, KD2JPW, with Scouts at the GOTA Station



Operators Relaxing Between Their On-The-Air Activities



Our FD Cook Extraordinaire-Dom, KD2EPM.

Test Session Report for June 14, 2017

The SJRA would like to congratulate the following on their recent Amateur Radio licensing achievements:

(Please note: Test Session Reports are published in Harmonics the month after the test session so we can publish passing technicians newly assigned call.)

Evan Tucker, KD2NSW
 10 Cooper Skill Dr.
 Sicklerville, NJ 08081
 Earned his Tech

Dominic DePuma, AC2VP
 41 Erindale Dr.
 Marlton, NJ 08053
 Passed all three levels and earned his Extra.

	Tech	General	Extra	Total
To Date	123	55	29	207

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Radio Sport aka Contests

John, W2FDJ, johnd152 at verizon dot net

Member's activities

Please send your thoughts and ideas to me at:

Johnd152 at verizon dot net

for publication.

Recent posted results - see arrl.org or CQ

The ARRL 2017 June VHF Contest results from members received by June 10 are as follows.

Dara, KC2THQ, 128 QSO, 51 grids, 7,395 points.

Roy, WB2EOD, 128 QSO, 51 grids, 7,395 points.

John, W2FDJ, 74 QSO, 32 grids, 2,368 points.

Numerous Sporadic-E band openings on Six meters over the two day VHF contest made high grid counts possible this year. I don't recall ever working more than 20 grids from my average station before. The amount of 51 grids sounds huge to me, congrats to Dara and Roy for their tie 1st place SJRA scores.

Some log summaries have been received for the recent Club QSO Party. The deadline for filing is July 16. In August we hope to have lots more to share with you.

Dom, KD2EPM, shared with the 2M net group held Monday, July 10 that he participated in the 13 Colonies event over the previous week. He used one of the Remote stations and was successful in working all 13 Colonies and the bonus stations in Philadelphia and England. Well done Dom! Dom is continuing to work on stealth antennas so he can operate more of these types of events from his NJ QTH.

Please send me your summary sheet so I will be able to list your claimed score. John/W2FDJ

Upcoming contests - see arrl.org or wa7bnm.com for rules and more details.

Every Tuesday only

Phone Fray 10:30PM-11PM (yes 30 minutes)

(ten weeks -4 times a year)

Every Wednesday only

CWops Mini-CWT test,
9 -10AM, 3-4PM, 9-10PM

(three, one hour sprints)

Every Thursday only

NCCC Sprint 10:30PM-11PM (yes 30 minutes)

North American QSO Party RTTY

7/15-16, Saturday 2PM EDT to Sunday 2AM

North American QSO Party CW

8/5-6, Saturday 2PM EDT to Sunday 2AM

ARRL *New* 222 MHz and Up Distance Contest

8/5-6, Saturday 2PM EDT to Sunday 2PM

North American QSO Party SSB

8/19-20, Saturday 2PM EDT to Sunday 2AM

Solar Eclipse QSO Party

8/21, Monday 10AM EDT to 6PM

ARRL September VHF Contest

9/9-11, Saturday 2PM EDT to Sunday 11PM

New Jersey QSO Party

9/17-18, Saturday noon to midnight EDT and Sunday 10AM to 4PM EDT

SJRA Nets Quarterly

Vol 1 No. 1 by John - WY2J

wy2j at arrl dot net

Introduction: Back in August of 2009 after I had taken over responsibility for the nets I started writing a one column monthly article titled Net News for Harmonics which focused on people and operations. It was always difficult finding quality material for each issue and after about four years I discontinued it. It was competing with Ham Tech for my time and as a result nothing was getting done with fixing and growing the nets, which along with the K2AA repeater were in sad shape. It took about a year to get the FM repeater and its antenna replaced then in the spring of 2016 we got a new Fusion upgrade to K2AA plus a Wires X VOIP link to the world.

Finally I could see a path to restructuring the nets into something worthy of the SJRA name plate. I retired Ham Tech in the mid summer of 2016 and went to work on getting Fusion into our nets. We went on the air in DN mode in October 2016 and made Fusion nets permanent two nights a month starting in January 2017.

Next we attacked the dying 10 meter SSB net, killed it off and started up an experimental 2 meter SSB net with omnidirectional vertical antennas in April 2017. It has been very successful and will continue. But there is more to go.

Last month we were very fortunate to have three of our control operators elected to the club's Board of Directors, Art, N2CPR, John, W2FDJ, and Matt, N2IDW. This gives the Nets far better communication and some influence with the club's decision makers on issues we need help with. SJRA Nets Quarterly is my new vehicle to communicate to

all club members on where we are, where we are going and why and what help we need to be successful. I hope you like it, read it and contribute to it.

People and Responsibilities: In June 2017 we lost Alan, K3WWT, our long time 1st Monday FM net host and control operator. Seems Alan wants to live full time at his summer home in Avalon, too far from the K2AA repeater to run a net. But he told me he will be local during the cold weather so just maybe he could be a control operator late fall to early spring if the nets changed their schedule between summer and winter. Net participation definitely falls off in the summer, more on this later.

Dom, KD2EPM, has taken over the 1st Monday FM net starting July 3rd on a full time basis. Dom operates from an antenna restricted residence and has developed several stealth antenna strategies and unique ways to get on 2 meter SSB that I hope he will contribute to future issues of Nets Quarterly.

Matt, N2IDW, our 4th Monday net control operator has approached me about adding a second SSB net on the 1st Thursday which he will run in addition to his FM net. If interest continues in 2 meter SSB for the next three months I plan to start it up in October.

We currently run 7 nets with 6 control operators and with the 2nd SSB net in October we are really stretched thin. I also question if the club membership will support this many nets, particularly in the summer, more on this later.

Station Upgrades: When we started up the Fusion net a year ago we improved the market for Yaesu Fusion rigs, at least in the

(Continued on page 8)

(SJRA Nets Quarterly from page 7)

SJRA community. The 2 meter SSB net has only been on the air three times and while it was specifically designed to minimize new major purchases it has triggered some experimentation and station upgrades. My contribution to this activity was adding a \$90 new antenna tuner to fix the 1.8:1 SWR on my Diamond X200 FM band antenna. My 12 year old ICOM 746PRO has no tuner on 2 meters and the ALC rolls back the power for SWR above 1.5:1, in my case from 100 to 60 watts. I selected the MFJ921 manual tuner that works on 2 and 1.25 meters up to 300 watts PEP. Figure 1 shows the tuner on top of my 746PRO.



Figure 1, WY2J's 2M Antenna Tuner & ICOM 746PRO

This tuner is a symmetrical Pi-L network with only two tuning controls for fast easy tuning. It took only 30 seconds to go from 1.8:1 to 1.05:1.

I know others have made significant upgrades including Dom, KD2EPM, with a transverter from HF to 2 M and Matt, N2IDW, increased his power from 10 to 160 watts. Send a short e-mail description and attached J-PEG photo of your upgrade to wy2j at arrl dot net and I will include it in

future editions of SJRA Nets Quarterly. It may inspire an upgrade for someone else.

Items for the Near & Far Future: SJRA has been sitting on a new Yaesu Fusion repeater for a year and a half plus a bucket of money in the treasury dedicated to repeaters for even longer.

The K2UK move has been studied but it isn't going to happen unless SJRA finds a new site and leaves Pine Hill. I would kill to have an antenna at 500 feet on the TV 23 or 52 towers or better yet both. K2AA/K2UK would cover 2/3 of NJ. Other clubs have done it. Don't forget to provide for selectable linking of K2AA and K2UK on FM and Fusion especially during the nets.

Let's do it now. Action: KC2TN, N2IDW, N2CPR, W2FDJ and other friends on the board.

Look into other SNJ clubs with Fusion and Nets and invite their interested members to call into the SJRA Thursday Fusion nets via RF or WiresX. Target start up 4th quarter 2017. Action WY2J.

Consider that there may be real value and participant interest in retaining some experimental aspects of the 2 meter SSB net.

Perhaps 30 minutes a month one night. Adding PSK-31 or JT-65 is very easy and adds a lot of sensitivity and coverage. It may play and it may not but the experiments may be of interest to our participants. Action N2IDW and N2CPR.

Please turn to page 11 for tables showing net participation during periods of 20 April–25 May 2017 and 5 June – 26 June 2017.

How to Copy CW in Your Head

Dan, KB6NU, cwgeek at kb6nu dot com

The second most common question that I get about CW is, "How do I learn to copy in my head?" When I get this question, I give, what to some, is a very unsatisfying answer. One day, I just went cold turkey. I put down the pencil and paper and never copied letter-by-letter ever again.

Carlo Consoli, IK0YGJ, author of *Zen and the Art of Radiotelegraphy* (http://www.qsl.net/ik0ygj/enu/ZART_r20101008m.pdf), says that what operators need to do is to program themselves to copy in their heads. He counsels operators to practice relaxation and visualization exercises. Visualize yourself as a high-speed operator, and maybe one day you will be one.

This approach seems to have worked for Consoli. He is a member of the Very High Speed Club (VHSC), First Class Operator's Club (FOC), and has been clocked at copying over 70 wpm. I'm not sure that this is really going to work for everyone, though.

Another approach is touted by Carl, N7AGK. On his website, Carl writes, "I have created a program to assist you in learning to copy Morse code in your head. Everything you need will be contained on a single USB flashdrive that I will provide to you. In the program there are audio Morse code presentations followed by a visual display. The visual display shows the information in large print and upper case letters. The visual display verifies that you have received the Morse code correctly." Carl's program costs \$20 and is available from n7agk.com.

Zeb, HB9FXW, has created a free web application called Seiuchy (<http://www.kb6nu.com/let-walrus-help-copy-head/>) to

help people learn head copying. Seiuchy, which Zeb says is Japanese for walrus, simulates on-air contacts. The trick to using this app is that instead of copying exactly what's sent, you only copy the most important bit of information. The idea is that if you train yourself to do this, then you can concentrate on what's important rather than getting bogged down in copying what's not important.

A different take on head copy was sent in by one of my blog readers, Bill, W3MSH. He wrote, "I was a CW op for many years and discovered something fascinating. I first began to hear "dots and dashes", then letters, words, sentences and at 35+ wpm, thoughts in my head."

I think Bill may have hit the nail on the head with this comment. I like the idea that copying code in your head is more akin to generating thoughts than it is to copying individual characters or words. Everybody talks about how getting faster is about moving from copying individual characters to copying words to copying entire sentences. I've never thought of it that way, although I was at a loss as to how to describe how I do it. I think the idea that when copying in your head, the code creates thoughts directly is a beautiful way to put it.

Isn't that what's happening when you talk to someone? When someone talks to me, I don't consciously parse the sentences and then analyze them to see what was just said. It's more of an unconscious process. The sounds being uttered are creating ideas in my head.

Shouldn't we approach head copy in the same way? Instead of thinking about head copy as the process of writing down

(Continued on page 10)

(Copy CW in Your Head from page 9)

the characters on an internal blackboard to be read later, it should be about translating the sound of the Morse Code directly into concepts. The sounds "dah di dit...dah dah dah....dah dah dit," should conjure up the image of a poodle or a pitbull, not the letters "D O G."

How that translates into a program or a method for learning to copy the code in one's head is another matter. It might be worth thinking about, though.

.....

Dan Romanchik, KB6NU, is the author of The CW Geek's Guide to Having Fun with Morse Code and the No Non-sense series of amateur radio study guides. When he's not head copying on 30m, he blogs about amateur radio at KB6NU.Com

(Meeting Minutes from page 3)

far., Holding reports till following month, so issued calls can be added.

Field Day- by Ken, K2WB- very successful, 40ssb, 40cw, and 20 cw had over 1000 q's. We worked class 7A this year.

No old business was discussed.

New Business- Roy, WB2EOD stated the treasurer needed a stamp for checks deposited. The purchased was approved on Motion by WB2EOD/N3AVT.

List Your "For Sale" Ham Stuff in the SJRA Harmonics

Email Ted, W2TAG, with your
listing, ted.w2tag at gmail dot com

President's Message

Ken – K2WB

I want to thank the Rich, KV2R, Ira W2IRA, Ted, KD2ARD, and Ray, N3RG, for their service to the South Jersey Radio Association. In addition, welcome to new board members: Art, N2CPR, John, W2FDJ, Burton, NJ2T, and Matt, N2IDW. I also want to thank Jon, W2MC, Lou, N2HQL, Dennis, AC2FO, Roy, WB2EOD, Tony, N2ATB, Rich, W2JAZ, and Al, N3AVT, for their continuing support.

Field Day 2017 is now a fond memory, much kudos to the band captains and members for their tireless efforts in keeping the club call sign of K2AA on the air for 24 hours. Field Day would not be field day without help. It takes a lot to setup, operate and breakdown the equipment for Field Day. This year we had a lot more help than last year and it really made a difference. We can always use more help. Congratulations to all that participated. I already look forward to Field Day 2018, it is already less than a year away, are you making plans?

With some of the activities of Field Day, it reminds us to be safe while working on our antennas or equipment. Accidents come with no warning. Towers, antennas and equipment can be replaced easily, but injuries are not so easily remedied.

The Club QSO Party is also over and several members got to operate as K2AA and as themselves. At first glance, it was a success. Look for the results in the next month or two.

As the heat of the summer continues, everyone should be mindful of the staying hydrated. The other bad side of the heat is severe weather.

July Meeting:

Is the **Fourth** Wednesday, July 26, 2017

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 July:

Video of 2017 Field Day.

SJRA Member August Birthdays

Alfred Chai, KD2ELG; Jim Higgins, KC2SZ; Lou Priestley, N2HQL; Rick Stoneking, W2RDS.

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

August Meeting:

Is the **Fourth** Wednesday, August 23, 2017

First Class Mail

South Jersey Radio Association
PO Box 1026
Haddonfield, NJ 08033

