



HARMONICS

1916

South Jersey Radio Association

2020



President's Message

Ken- K2WB

As the leaves start turning and eventually fall to the ground, this is a time for cooler weather in the evenings and warm days. It is also the start of the contest season for those who enjoy contests.

K2AA was on the air from nine counties in the South Jersey ARRL Section for the NJ QSO Party. Thank you, Holden, KD2JPV for helping with this exercise. It took a lot of incredibly detailed planning to execute the mission. More details to follow (see page 3).

Club QSO Party - This our third year running the club QSO Party, anyone interested to operate as K2AA should contact me as soon as possible. If you operate as K2AA any contacts made count towards your own personal contact count.

The next big "SJRA" event will be the November Sweepstakes. Traditionally the SJRA will provide any member who submits their log with the SJRA as their club affiliation the normal ARRL awards should you qualify. These would be a participation pin for anyone who makes at least 100 contacts and a clean sweep coffee mug for anyone that contacts all 83 ARRL/RAC sections. CW is November 7-9 and SSB is November 21-23. For more information go to the ARRL webpage for rules and more information.

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Southern NJ Section News October 2020

Tom Preiser, N2XW ARRL- Section Manager



I would like to thank the Gloucester County Amateur Radio Club for hosting the Hamfest and Southern NJ Section Convention. While current conditions have changed the way the Hamfest is done, I think it was still a success. There seemed to be a good turnout and I hope everyone enjoyed themselves.

Many Clubs continue to meet online or via nets. I think this may continue for some time. If anyone needs to use Zoom meetings, we have an account available through the Section that can be used.

Southern New Jersey Section amateur radio emergency communications operators are preparing the annual 2020 Simulated Emergency Test (SET) on Saturday October 3rd. The purpose of the annual SET is for amateur radio operators to apply their emergency communications skills

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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 12, 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 Rooms 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 SJRA website: www.sjra.org or from Art Arnold, N2CPR, Email: membership@sjra.org. SJRA's web page: <http://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/Groups/view/southern-new-jersey> ★
 ★ *****

Officers:

President: Ken Botterbrodt, K2WB
Vice Pres.: John Doran, W2FDJ
Treasurer: Roy Herman, WB2EOD
Rec. Sec: Carl Hyde, W2CSH
Cor. Sec: Dennis Cioffi, AC2FO

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 Holden Correia-Fisher, KD2JVP
 Matt Grohans, N2IDW
 Rick Lawn, W2JAZ
 Frank Longbottom, AA2AW
 Al Witner, N3AVT

Committees:

Historian: Mark Walters, KD2JPW
Membership: Art Arnold, N2CPR
Field Day: Ken Botterbrodt, K2WB
Contests: John Doran, W2FDJ
Repeater: Robert Sunbury, K2UQ
Programs: Carl Hyde, W2CSH
H&W: Roy Herman, WB2EOD; and Dara Herman, KC2THQ
Awards: **Vacant (Please Volunteer)**
Hospitality: Jean Priestley, KA2YKN
Nets: Matt Grohans, N2IDW
Publicity: John Johns, KD2RKA
Picnic: **Vacant (Please Volunteer)**
Ways & Means: Roy Herman, WB2EOD
Property: Frank Longbottom, AA2AW
Web Site: Ken Botterbrodt, K2WB
Harmonics Staff:
Publisher/Editor: Al Ziegler, KD2ST
Alternate Editor: Ted Groke, N8MP
Circulation: Jim Vecchiola, KR2T

LOCAL WEEKLY NETS (See Website for latest updates)

Mondays FM Net	K2AA Repeater, PL: 91.5	145.290 @ 8PM
Fusion on 2 ND & 4 TH Thurs.	K2AA Repeater, DN mode	145.290 @ 8PM, Fusion
6M SSB on 1 st Thurs.		50.150 MHz USB @ 8PM
2M SSB on 3 RD Thurs.		144.260 MHz USB @ 8PM

Harmonics Deadline

Articles submitted for the next Harmonics will be accepted until Monday, November 9, 2020. Email: harmonics@sjra.org

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.

9 X 1A Field Day Operations in 12 Hours

Ken- K2WB

The NJ QSO party presents an interesting challenge for the K2AA team... I will start by reviewing the back story from 2014.

For many years the NJ QSO Party has been losing interest, thanks to the Burlington ARC (K2TD) who took over the contest and is giving it a rebirth. Looking at the results it has been obvious that some counties are not having stations on the air. This presents the problem that participants could not sweep all of the 21 NJ counties.

This all started when Jon, W2MC and myself talked about how much fun it would be to activate a quiet county in NJ. We threw together some equipment (including my infamous full size 40m vertical) and headed to Atlantic County and operated at the Farley rest stop on the Atlantic City Expressway. Setup took almost no time at all and we were on the air. While running the bands, someone asked us if we heard anyone from Cape May County. At which point we moved to Cape May County. During the drive we considered the idea of operating from as many counties in South Jersey as possible.

In total we activated 7 of the 9 counties with K2AA This is genesis of the madness.

The following year (2015), we decided to bring T3 out since it provided a more comfortable operating setting. The same year we added another transmitter so we became a 2-transmitter operation (2A). We added two more counties to the road trip and were able to activate K2AA in all nine South Jersey Counties. John and I got help from Bob, KE2D and Burton, NJ2IT on Sunday of that year.

In 2016 we went back to a one transmitter operation without T3.

2017 & 2018 we did not operate for various reasons, mostly schedule conflicts.

In 2019 Holden, KD2JPV and myself started it up again. Unfortunately, the contest hours were reduced to only 12 hours. This required very careful scheduling and planning and we were still successful.

Year	QSO's	Score	Counties
2014	127	3910	7
2015	166	8325	9
2016	87	2784	9
2017	-	-	-
2018	-	-	-
2019	101	6060	9
2020	102	14280	9

This year we improved on our plan, managed our surprises better and was able to increase our scores. Still with only 12 hours it is difficult to maximize on-air time. The plan included hard stop times to keep us on schedule. We were able to get on the air earlier in a couple of counties giving more operating time in those particular counties.

The time breakdown is as follows:

Activity	HH: MM
Travel Time (Between Stations)	3:24
Time on the Air	5:56
Time Spent Setting up and taking down the station	2:40
Total	12:00

What is important to understand is that we are not using a mobile antenna mounted on a vehicle. That our station is configured with a full size portable 40m vertical that is 32 feet tall with three full size radials. Setting up at each stop, doing this eight times in twelve hours. The first step and last take

(Continued on page 5)

Items for Sale

Revised KV2M/KV2R Ham Radio Equipment List

Item	Age (yr)	Qty.	Comment	Asking	Promised?
MFJ1702C 2-Way coax switch	14	1	works	\$5	
US Tower HDX 555 MDP Motorized Radio Tower, Includes Brand New Raising Fixture	14	1	Works fine - some bolt rust	\$3,000	
Force-12 C4 Antenna (10, 15, 20, 40, ~12, ~17 m) w/B1 Balun	14	1	Works fine - SWR<1.3, ex 40m	\$100	
Ameritron RCS-4 (4-way) remote coax Switch for F12 antenna	14	1	Works fine	\$40	
50' Low Loss Coax Cables (Used within Underground Conduit)	14	1	Works	\$15	
50' Coax Cables (Used within Underground Conduit)	14	3	Work	\$15	
50' Coax Cables (Used on Tower)	14	3	Work	\$10	
50' Low Loss Coax Cables (Used on Tower)	14 & 6	2	One tested, work	\$15	
Astron SS-30 13 V Power supply (25 A Continuous; 30 A 33%)	23	1	Works	\$30	
10' RG-213U Coax Cable (never used)	6	1	Unused	\$30	
12' Andrew 1/2" LDF-4 50A Coax Cable (never used)	6	1	Unused	\$30	
IC-V82 Handy-Talky	10?	1	Not tested	\$10	
MFJ-860 30/300W SWR/Power Meter	10	1	Works	\$10	
ICOM-2200H 2m FM 5/10/25/50W Transceiver	12	1	Works	\$50	

Please contact Rich, KV2R at: [kvrrich AT gmail DOT com](mailto:kvrrich@gmail.com) with inquiries or offers.

(President's message Continued from page 1)

Last year we put K2AA on the air for the November Sweepstakes. It was a fun time for all, the operation was low key, while providing the club a facility for SJRA members to gain experience on operating in a contest and use N1MM.

If you are interested, please contact me so that I can put you into the operator schedule and get an Elmer setup if you want one. K2AA will most likely operate from my QTH in Marlton out of T4.

If you do participate in a contest, you can help the SJRA by listing the SJRA as your affiliated club. The club robot needs it put as "South Jersey Radio Assn" to count. Send your summary sheets to contests@sjra.org

Awards -John, W2FDJ will start looking for nominations for the club awards. These are the Amateur of the Year and the Gordon Kressel award. To nominate someone who is deserving of an award email John with details of why and which award they qualify for. Send your nominations to awards@sjra.org.

HamClubOnline.Com - All of the members have been entered into HamClubOnline.Com. It is important that all members visit the website and update all of their personal information. Everyone can choose what personal information is available to other members of the club. Renewals will be handled through this system this year. You will receive an email from the system automatically, please respond when you get the email.

Why is this important. In the near future the email version of Harmonics will be distributed using this system as well as other club information. We will continue to maintain the email reflector for club dialog and information.

Please do not hesitate to contact me if you should have any questions. **Ken AT k2wb DOT com.**

Lastly Meetings and COVID-19, I have reached out to the Gibson House and they are not allowing meetings yet, stay tuned. 73's Ken K2WB

(9 X 1A Field Day Operations Continued from page 3)

down happens outside the contest which helps create more operating time at each stop. We are able to setup in 10 to 11 minutes and break down in around 8 minutes. We got better at each stop as we got more practice.

Since we operated 40 meters, it was difficult to work SJRA members, because our distance was too close for skywave and not close enough for ground wave. In spite of that we did work a number of SJRA members, but not as many as we would have hoped.

Holden, KD2JPV oversaw our live social media feed during our adventure. Postings were on Instagram and Facebook as we operated from each county. This year our opera-

tion had better information on the SJRA website that hopefully helped members find us.

During the operation we gained a following of stations looking for us at each county stop. There were couple of domestic stations and OM2VL in the Slovak Republic.

Why do we do it? Because it is fun and there is a certain satisfaction when someone tells you on the air that you were their 21st county.

Thanks to all of the SJRA members who tried to contact us and also those who submitted logs to the NJ QSO Party. Every little bit helps.

Already we look forward to next year with improvements already in the planning.

73's de Ken K2WB

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.

ARRL VHF Contest (was Sept 12-14th)

Name	#QSO'S	# Grids	Points
Bob, N2SCJ	116	38	5,814
Paul, KF2Y	111	38	5,130
Roy, WB2EOD	102	37	4,588
Dara, KC2THQ	102	37	4,588
Bob, K2UT	149	29	4,321
John, W2FDJ	65	26	1,976
Bob, KE2D	51	16	816
Dom, KD2EPM	29	12	384
Carl, KD2SSE	31	8	248
Owen, WA2WTF	10	8	80
Jon, W2MC	6	1	70

NJ QSO Party (was Sept. 19-20th)

Name	#QSO'S	Mult.	Points
Bob, KE2D	309	51	55,794
Dom, KD2EPM	17	10	680
Owen, WA2WTF	3	3	18

Also in the NJ QSO Party K2AA/Rover with KD2JPV and K2WB operators. 106 QSO's 7704 Points. All nine South Jersey Counties.

CQ WW DX RTTY Contest (was Sept 26-27th)

Name	#QSO'S	Points
John, W2FDJ	145	30,624
Rick, W2JAZ	128	27,225
Karl, KD2SSE	103	13,416
Bill, KB2MMI		

Upcoming Contests - see arrrl.org or contestcalendar.com for rules and more details. Also check the calendar on SJRA website for the latest and links to the contest rules.

Every Tuesday only

Phone Frey 10:30-11pm. (yes 30 min) (ten weeks—4 times a year).

Every Wednesday only

CWops Mini-CWT test 9-10am, 3-4pm, 11pm-12am (three one hr. sprints).

Every Thursday only

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(Radio Sport Continued from page 6)

NCCC Sprint 10:30-11pm. (yes 30 min.).

Every Thursday only

NCCC RTTY Sprint 9:45-10:15pm. (30 min.).

Every Sunday only

K1USN Slow Speed Test: 8:00-9:00pm EDT. Mode- CW.

Club QSO Party: 10/17-18, Sat 12pm EDT to Sun 6pm. HF, 6m, 2m, 70cm. Any mode (30 hours) - (SJRA sponsored)

ARRL School Club Roundup: 10/19-23, Mon 9am EDT to Fri 8pm. All bands except 60, 30, 17, & 12m. CW, Phone, Digital

CQ WW DX Contest: 10/23-25, Fri 8pm EDT to Sun 8pm. HF – Phone.

Zombie Shuffle (QRP 5w) 10/30, Fri 4pm EDT to 12pm. 80, 40, 20m. CW

Looking Longer Range:

ARRL Sweepstakes: 11/7-8, Sat 4pm EST To Sun 10pm (24 of 30hrs). HF – CW.

ARRL Sweepstakes: 11/21-22, Sat 4pm EST To Sun 10pm EST (24 of 30hrs). HF – Phone.

CQ WW DX Contest CW: 11/27-29, Fri 7 pm EST (48hrs). HF – CW.

ARRL 160-Meter Contest: 12/4-6, Fri 5 pm EST to Sun 11am. 160 mtr. – CW.

Awards Committee

The SJRA is looking for volunteers for the Awards Committee. This committee is responsible for the preparation and presentation of all awards. The members of this committee will select the recipients of SJRA's honorary awards. Award presentations will be made at a general meeting of the SJRA specified by the Board of Directors. If interested in serving on this committee, please contact Ken, K2WB or John, W2FDJ.

Also it's not too early to be thinking about nominating a SJRA member for an award. Each year SJRA recognizes significant accomplishments of its members by presenting three prestigious awards—Miles Brown Award for Technical Merit, Harry Densham Amateur of the Year Award and the Gordon Kressel Long Term Service Award. These awards bring distinction and recognition to deserving amateur radio operators for their activities, accomplishments, and exceptional contributions to the hobby and the SJRA. The SJRA website has more information about these awards and past recipients.

Antenna Analyzer

Frank- AA2AW

SJRA was donated a new Comet CAA 500 Mark II antenna analyzer for your usage. It covers 1.8 to 500 MHz. It is easy to use. It has color digital display and analog swing needles. If you would like to borrow the analyzer, contact SJRA's property manager: Frank Longbottom at: **frank-aa2aw AT gmail DOT com**

(Southern NJ Section News Continued from page 1)

in a realistic simulation of an emergency event that could occur. The event is not a contest, rather an experiential learning event for enhancing skills and knowledge.

SNJ Section leadership in collaboration with Southern NJ County Amateur Radio Emergency Service Coordinators has selected a "Derecho" weather event for the exercise. The exercise has been designed to comply with all COVID-19 requirements. All operators will be applying their skills and knowledge independently from their homes.

The Section objectives for the event are designed to apply operating skills utilized in the constantly changing emergency communications environment. This year's simulated event will primarily focus on serving two served agencies of Southern New Jersey Section amateur radio emergency communications, regional office of the National Weather Service and County Offices of Emergency Management.

If you are interested in participating, please contact your County Emergency Coordinator, list available on this website, or WB2ALJ@arrl.net Section Emergency Coordinator.

The tropics have been quite active the last two months. Many Hams down South have been active on the air supporting these efforts. Please make sure frequencies are clear for their use.

Contests are coming this fall season. Be sure to check out the contest list at <https://contests.arrl.org/>.

Lastly due to no one running for Section Manager, I have been re-elected by default for two more years. A big thank you to all those who have supported me and the leadership in the Southern NJ Section of the ARRL. If there is anything I can do to help anyone out please email me at n2xw@arrl.net. I hope to get around to various club meetings either on the air or online soon.

Remember to Stay Safe and Stay on the Air.

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SOUTH JERSEY RADIO ASSN.
100 YEARS
1916 2016
AMATEUR RADIO
K2AA

2021 BUDGET COMMITTEE VOLUNTEERS NEEDED

Our treasurer, Roy, WB2EOD and VP, John, W2FDJ will be forming a new committee to work on the Club's 2021 annual budget. Per the Club's by-laws, we will need two members to fill out the committee. The committee's purpose is to prepare an annual budget based upon the projected needs of the SJRA for the coming year.

Please considering volunteering for this important club activity. If interested, please contact either John or Roy for additional information.

Club's Remote Station Looking for a Home

Rick, W2JAZ

The Club's remote station has been set up and tested at my QTH for a trial period of time. The past six months have provided the time necessary to get the bugs out of the system. It works very well and has even been used to host an SJRA net control operator.

Unfortunately I had to make the decision to take the station off the air, which I announced at the September meeting. I need to do maintenance on my antennas before the weather stops cooperating and the SJRA antenna is in the way. I've also found that the station can interfere from time to time with the operation of my own station, therefore the station will be taken off the air until we can find a permanent home.

I really hope that someone can suggest a permanent location for the remote station. The square footage required is minuscule, but internet access will be necessary and space for a modest antenna such as a vertical or endfed. Please let me know if you know of such a space.

VE Report

VE sessions have been postponed due to the Covid 19 situation. The VE sessions will resume once it is safe to do so.

Total New or Upgrades to Date			
Tech	General	Extra	Total
168	82	41	291

The 300th person to obtain an initial license or upgrade with the SJRA VE team wins free SJRA Membership for one year!

New Members

The SJRA would like to welcome the following new members to our Club:

- Frank Hujber, KC3BLG
- Jodi Logan, KD2UUB

Meeting Minutes

The meeting minutes were not available for this edition.

Items for Sale

ICOM 7100 All bands 160 to 70 cm. All modes AM, FM, FMN, CW, SSB and D-Star. All boxes - packaged like a new radio with all accessories, all cables, mike, manual and cd. Pick up only. \$660

Kenwood TS590SG Includes box, all accessories. Purchase last December, power cable, mike, manual. One owner, still under warranty. Almost mint. Will include MFJ auto-tuner #939K. New 3 months ago, still under warranty. \$1,095 pick up only.

If interested in either of the above, please contact Art, N2CPR at: **artarnold AT yahoo DOT com**

Very clean, working **Heathkit SB** series station looking for a good home.

Package includes SB-301 Receiver, SB-401 Transmitter, and SB-600 Matching Speaker. All manuals, connecting cables, spare tubes AND a transmitter parts chassis.

If interested, please contact **Roy, WB2EOD**. Email: **wb2eod at arrl dot net**

The Club is selling it's **Kenwood TS-530S**. This is a 1980's vintage hybrid transceiver with two 6146B tubes. Covers 160m to 10m including the WARC bands. SSB & CW modes. The rig was in working condition the last time it was used. Asking \$300 but reasonable offers would be accepted. If interested, please contact Ken: **ken at k2wb dot com**

Cushcraft A3W with 30m driven element. For WARC bands 30/17/12m: **\$150.00**

Hy-Gain 402BA—2 Element 40m Beam: **\$200.00**. They are marked for easy reassembly and transportation. Price negotiable.

Contact by email: **ken at k2wb dot com**

Club QSO Party Sponsored by the SJRA



Date: October 17th & 18th.

Time: Sat. 12:00 (Noon) EDT (16:00 UTC) to Sun. 21:59 EDT (17:59 UTC).

Objective: Work as many amateur radio club members as possible and listed amateur radio club stations.

Bands: All amateur radio bands with the exception of 60m, 30m, 17 & 12m.

Modes: All modes including repeater contacts will be accepted.

Exchange:

- **Club members:** Call/Club Age+ Club Acronym
- International club members in countries whose rules prevent sign / # can give their official club acronym, such as Limerick Radio Club would be LRC, South Jersey Radio Association would be SJRA, etc.
- **Non-Club Members:** Call + Name

See: <http://sjra.club/sjraclub/qsoparty> for full details.

SJRA Jackets, Shirts, Hats

Order NOW - Next order going in soon!



Spring Jacket is \$51 (S,M,L,XL), Fall Jacket is \$58 (S,M,L,XL),
 Shirts are \$28 (S,M,L,XL), Hats are \$20 (one size fits all)
 Name and Call Sign embroidery included....Larger sizes slightly more!
 Email Joe, KC2TN, with orders or additional info: kc2tn at comcast dot net

Amateur Radio FCC License Testing

The SJRA sponsors *FREE* Amateur Radio FCC License testing on the third Wednesday of each month, except Nov & Dec. TBD. The location is: New Brooklyn United Methodist Church; 1336 E. Malaga Rd. Williamstown, NJ 08094. Registration is at 7:00 PM and testing begins at 7:30 PM. Walk-ins are accepted.

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

October Meeting (On-Line):
Is the **Fourth** Wednesday, October 28, 2020

The meeting commences promptly at 7:30 PM in the convenience of your own home via Webex.

Program For October:

The October presentation is: "Solar Power For the Ham Shack Without Breaking the Bank" Presenter will be Jim Kerkhoff, WB0MMC.

SJRA Member November Birthdays

November birthdays are: Art Arnold, N2CPR; Mike Fischbach, KB2RHI; Joseph Lameiras, K2WJL; Jerry Parker, KC2JJT; Richard Von Lintig, KV2R.

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

November Meeting:
Is the **Third** Wednesday, November 18, 2020.

First Class Mail

South Jersey Radio Association
15 Pelham Road
Marlton, NJ 08053

