



HARMONICS

1916 South Jersey Radio Association 2020



Membership Notice

If you have not paid your 2020 dues, this may be the last issue of Harmonics you receive. We've tried our best to make it convenient for you by going to the Club's website and following the instructions on the renewal form: <https://sjra.org/sites/default/files/2018%20RENEWAL%20AND%20NEW%20MEMBER%20FORM%20updated%203%2014%202018.pdf>.

Dues can also be paid via check and mailed to:

Roy Herman, WB2EOD; Treasurer,
SJRA
19 Bryce Road
Voorhees, NJ 08043

Please renew your membership today. Thank you.



President's Message

Ken- K2WB

Our combination white elephant, estate and member auction in February went very well. Lots of goodies for redistribution. Some may come back next year; you will never know.

The winter weather this year has been interesting so far nothing too exciting. When the weather turns bad or something out of the ordinary happens. It is a good idea to monitor the K2AA repeater. Should power go out and the repeater is not working, monitor 146.52.

Field Day will be here before we know it. Time to start thinking what you can do for the SJRA at field day, we are a team and it requires a lot of help to keep the SJRA #1 in the 7A category. Contact me and be part of the team! This is our only club event and THE SJRA NEEDS YOU.

Speaking of putting K2AA on the air, with the help of Al, KD2ST; Carl, W2CSH; Riz, KH7JO; Tom, KD2PPA and myself, K2AA was on the air for the phone part of the ARRL DX Contest. Special thanks to Al, KD2ST for helping put the station together. There was room for more operators in the schedule. It was a really low-

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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 it's 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: 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

Directors:

Art Arnold, N2CPR
 Tony Canuso, N2ATB
 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: Ira Weinstein, W2IRA
Harmonics Staff:
Publisher/Editor: Al Ziegler, KD2ST
Alternate Editor: Ted Groke, N8MP
Circulation: Jim Vecchiola, KR2T

LOCAL WEEKLY NETS

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, April 6, 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.

Meeting Minutes

February 2020 Board Meeting Minutes

Date: 02/5/2020

Time: 1930

Facilitator: Ken, K2WB

In Attendance: Carl, W2CSH; Art, N2CPR; Holden, KD2JPV; Ken, K2WB; Frank, AA2AW; John, W2FDJ; Al, N2AVT; John Jones, KD2RKA; Tony, N2ABT; Rick, W2JAZ; Matt, N2IDW & Roy, WB2EOD

Board: Ken K2WB called the meeting to order at 1931.

Approval of Minutes: There were no minutes to approve as the BOD did not meet in January.

Treasurers Report: Roy, WB2EOD

The treasurers report was presented for approval. Detailing the count of members who had paid dues versus those who have not elicited a discussion on setting a hard date by which dues must be paid or members would have their harmonics delivery discontinued and lose their ability to vote on issues. Frank, AA2AW made the motion to set the March regular meeting as the hard deadline. This was seconded by Tony, N2ATB and carried. This action is supported by the club bylaws.

Membership: Art, N2CPR. Two new member applications were presented to the board. Both have paid their dues. Rick, W2JAZ made the motion to accept them which was seconded by Holden, KD2JPV and carried.

Correspondence Secretary: Dennis, AC2FO – No Report.

Harmonics: Al, KD2ST – No Report.

Repeater Committee: Ken reported that he has been trying to get the repeater committee chairman to discuss getting K2UK tied to a node so that both club repeaters can utilize wires-x and be tied together for the fusion nets. Equipment and a hosting location have been offered to the club. Ken will try again to contact the chairman one last time before the February regular meeting.

History: Mark, KD2JPW – No Report

Club Merch: Joe, KC2TN – No Report.

Contests: John, W2FDJ reported that the 2019 contest participation has been summarized and certificates are being printed. John would like to coordinate the club QSO part much earlier than last year. He has enlisted the help of the publicity chairman to use social media and contact with the contest entities such as the ARRL and Contesting.com to begin immediately.

Trustee: Ken, K2WB reported that there were no trustee issues.

Health and Welfare: Roy, WB2EOD heard from Ray, N3RG who is doing much better after his hip replacement.

Nets: Matt, N2IDW discussed the continuation of the swap shop portion of each Monday night FM net. The board members felt it should continue as a service to the members. The board directed that swap-

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shop participants should be counted as net participants.

Awards: John Jones, KD2RKA was presented with the inaugural Rookie of the Year award for his outstanding support of the Publicity position and his help and enthusiasm as a new member of SJRA. The board members congratulated John and thanked him for his hard work. In his acceptance speech John thanked the academy, his agent and his parents for encouraging him in his youth.

Programs: Rick, W2JAZ summarized the program schedule through July 2020.

VE Team: Al, N3AVT reported that VE testing had started again after the holiday hiatus. At the January session five people took exams to get licensed or upgrade.

Publicity: John, KD2RKA presented the results of the on line member survey. There were fifty one respondents to the survey. The results have been incorporated into a report that will be available to members at the March general membership meeting. The board expressed their gratitude to John for the effort and time put into the survey.

Property: Frank, AA2AW has reached out several times to the repeater chairman to get an inventory of the club property at the repeater site with no results. Ken is going to make a call to Bob to get some time scheduled to do this. The inventory and organization of the club trailer and its contents will be scheduled for a Saturday in the spring.

Old Business: So far, the Dayton bus trip has not met with the interest necessary to carry forward. The board asked John, KD2RKA to make a final effort at promoting the trip. If no improved interest is forthcoming the trip will be cancelled on a deadline of March first. Refunds will be sent out to those who have made deposits and the bus company notified. The date will be advertised in Harmonics and the club social media.

The Bylaws committee has been meeting at the request of the board. The mission of the committee is to bring the club bylaws in line with the current and future operating conditions of the club. The committee is using the capabilities of Microsoft Word to track changes, additions and deletions of the bylaws so that the board and members of the club can see what been changed and improved in the bylaws going forward. The first draft will be presented to the board of directors at the March BOD meeting. Then in accordance with the bylaws the approval of club members and adoption of the revised bylaws will be completed by the annual meeting in June.

New Business: Rick, W2JAZ presented a plan that will greatly benefit current and future club members. His idea was received with great enthusiasm by the board. It will make K2AA much more attractive as a club to belong to. Rick will present this idea to the membership at the February meeting.

The meeting was adjourned at 2205.

By Carl, W2CSH

2019 NJ QSO Party

Holden Correia-Fisher, KD2JPV

Twelve hours, nine counties. This was the challenge of the 2019 New Jersey QSO Party last September. In years prior, the contest was held over a weekend. The SJRA would operate as a rover station from the nine southern NJ counties over two days. This year was a bit more challenging in that we had to find a way to operate from nine counties in twelve hours. This included travel, setup, operation, and takedown. Somehow, we managed to do it with over 100 contacts. Our efforts paid off, as the SJRA was awarded 1st place in the Rover category. While operating as a Rover is fun, as social media says it, *"The struggle was real."* Between having to relocate, noisy conditions, and the four hours of driving, we actually did it.

Our adventure began before the contest started. Ken, K2WB had devised a precisely timed schedule for us to follow. It had our operating times and driving time down to the minute. Without it, none of this would've been possible. He also had our secret weapon- a custom made 40m vertical antenna. If you know Ken, you know his designs are both technical and practical, making the antenna's deployment faster than unrolling 50ft of coax. The rest of our equipment consisted of a Yaesu FT-991, a 35A switching power supply, a portable 800w generator, a Heil Proset, and a Windows 10 laptop running N1MM.

Our first county was Cumberland county. We were in an area that had a lot of room to experiment with the antenna setup and to determine all the tactical nuances that we'd need to master throughout our day. We arrived at 10:00, two hours before the start of

the contest. Once the contest started, we were on the air! After 40 minutes of operation we packed everything up and moved to our next location. Our next stop was Cape May County. This location was a picnic area between the Northbound and Southbound Garden State Parkway. We found a nice table to setup on and operated for around 40 minutes again. Before we left, we saw a tree that caught our attention. It was "The Famous Shoemaker Holly Tree", as the sign said. The tree was over 300 years old! Our next stop was Atlantic County. Here, there was a rest stop and a large parking lot. We operated out of the truck and setup the antenna on a small island.



Next, we were off to Ocean County. As we were driving down the Garden State Parkway, we saw a sign that our originally planned location was closed for construction. We drove off an exit and looked for a new place to operate. We found a viable location at a fire station. Ken noticed they had ham radio antennas on their tower so we knew they would understand our operation. They let us set up in their backyard and it worked perfectly. We had a large backyard for our radials and a nice picnic bench for the radio.

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Next, we made our way to Mercer County and found yet another rest stop that we had pre-chosen was closed! We were forced to operate on the side of 295 at an overlook. Yes, the antenna didn't have any solid ground. Yes, we had to operate in the truck. But the sunset was beautiful. After MC, we headed to Burlington County. We operated from a parking lot and it was awesome. The weather was so nice, it was perfect. We learned that grass medians are good enough for a ground plane! Who knew?

Next, we went to Camden County, same setup, in a parking lot. We did, however, make a new DX friend. A DX station across the "big pond" began looking for us in every county! It made the experience feel like a mission!

Our second to last stop was Gloucester County. We encountered tremendous RF interference and noise. We made less contacts than previous counties, but we still made them! It was near 23:00 and we were off to our final operating spot, Salem County. In Salem County we set up at a large truck stop. Ken did his planning ...this location offered us a large grass area for the antenna and a memorable place to conclude the QSO Party. We once again talked to our DX friend and got nice comments from members who were following us since the beginning. We ceased operations at 00:00 and it was kind of surreal. It was a loooong day and many hurdles to overcome but in the end, we accomplished what we set out to do, and when the smoke cleared ...we finished in first place SNJ Rover. I look forward to next year and hopefully back to a full weekend!

Antenna Analyzer

A group of club members pooled funds together and purchased a Comet CAA-500 Mark II Antenna Analyzer (<http://www.cometantenna.com/amateur-radio/swr-meters-analyzers/comet-ant-analyzer>).

The analyzer was donated to the Club and accepted by the Board at the last BOD Meeting.

The analyzer is available to loan to all club members in good standing by signing it out at a meeting and ensuring that it's returned in good order at the next meeting. If two or more people want to sign it out at a meeting, the first person would be responsible for using it quickly and then contacting the next person to arrange the hand off. The last person to use it that month would then return it to the club at the next meeting. If interested in borrowing the analyzer, please contact Frank, AA2AW (frankaa2aw at gmail dot com).

The following members made a donation towards the analyzer:

1. Albert Bassetti, KD2FGG
2. Owen Bermann, WA2WTF
3. Ted Dean, KD2ARD
4. Tom Forner, KD2PPA
5. Paul Hayden, KF2Y
6. Ken Hoffner, KD2OZC
7. Carl Hyde, W2CSH
8. John Jones, KD2RKA
9. Frank Longbottom, AA2AW
10. Riz Malong, KH7JO
11. Dominic Sacca, KD2EPM
12. Mark Walters, KD2JPW
13. Al Ziegler, KD2ST

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 Int DX Contest CW (was February 14-16th).

Name	#QSO'S	Mult.	PTS
John, W2FDJ	433	204	261,099
Dom, KD2EPM	39	35	4,095

And John, W2HUV booked the Remote-HamRadio.com station KP4/Palmas to amass what he said was his best results ever!

John, KP4/W2HUV: 2,108 QSO, 263 Mult – 1,663,212 Points.

Rig: K3 & 500W Solid State Amplifier

10, 15, 20 and 40 meters: SteppIR DB36 @ 75'

80 & 160 meters: Inverted Vee @ 75'

John, W2HUV said ARRL DX contests are unique in that DX stations may not work each other. They may only work W/VE stations. I pointed the SteppIR DB36 at NA and let the W/VE stations come to me. There was no need for spotting. The runs during the 15m openings were brutal, but I did the best that I could, considering my arthritic fingers and being 80.

Who knew that the bulk of my contacts would be on 15m! This shouldn't have been

a surprise since many were probably going after their 15m DXCC award.

Upcoming Contests – see arrl.org or contestcalendar.com for rules and more details.

Every Tuesday only

Phone Frey 9:30-10pm. (yes 30 min) (ten weeks -4 times a year).

Every Wednesday only

CWops Mini-CWT test 8-9am, 2-3pm, 10-11pm (three one hr. sprints).

Every Thursday only

NCCC Sprint 9:30-10pm. (yes 30 min.).

Every Thursday only

NCCC RTTY Sprint 8:45-9:15pm. (30 min.).

CQ WW WPX Contest SSB: 3/27-29, Fri 8 pm EDT to 8pm Sun. HF; SSB

ARRL Rookie Roundup: 4/19, Sun 2 pm EDT to 8pm Sun. HF; SSB.

Looking Longer Range:

CQ WW WPX Contest CW: 5/29-31, Fri 8pm EDT to 8pm Sun. HF; CW.

ARRL June VHF Contest: 6/13-14, Sat 2pm EDT to 11pm Sun. VHF, All modes;

ARRL Kids Day: 6/20, Sat 2pm EDT to 8pm Sat. HF + 2m rptr. SSB + 17, 12 mtrs

ARRL Field Day: 6/27-28, Sat 2pm EDT to 5pm Sun. HF; All.

VE Report for February 19, 2019

The SJRA would like to congratulate the following on their recent achievements.

Karl D. Davis, KD2SSE

38 Jacamar Drive
 Voorhees, NJ 08043
 Earned his Extra

Kenneth W. Hoffner, Jr., KD2OZC

107 Haines Road
 Mount Laurel, NJ 08054
 Earned his Extra

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!

VE Team Member Appreciation Award

Craig Hodsdon, WE2Q was awarded the VE Team Member Appreciation Award for 2019.



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New Members

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

- Bret Johnson, KE8DAC
- Dave Kappler, KA2PPL

(President's Message Continued from page 1)

key operation as planned. Still we casually worked 57 different countries.

Sometime this spring when the weather gets better, we will have a SJRA trailer work party tentatively scheduled for April 4th. Plans are starting to get underway. Please contact Frank, AA2AW if you are interested in helping.

Roy, WB2EOD has been getting a large number of Membership Renewals; we have more than 100 members that renewed and hopefully more to come. If you had not done so it is now time, otherwise you will not be receiving harmonics after this issue. Please send in your SJRA membership renewal as soon as you can, act now so you don't get missed in the next roster.

Support our nets and check in. It is a good way to meet other members of the club. Check in today it is ok to just listen.

73's

de Ken K2WB

March Meeting Presentation

We are honored to have at our March General Meeting a special presentation on "DXing with WSJT-X: FT8 and Beyond" by Dr. Joe Taylor, K1JT.

Joe Taylor was first licensed as KN2ITP in 1954, and has since held call signs K2ITP, WA1LXQ, W1HFV, VK2BJX, and K1JT. He was Professor of Astronomy at the University of Massachusetts from 1969 to 1981, and since then Professor of Physics at Princeton University, serving there also as Dean of the Faculty for six years. He was awarded the Nobel Prize in Physics in 1993 for discovery of the first orbiting pulsar, leading to observations that established the existence of gravitational waves. After retirement, he has been busy developing and enhancing digital protocols for weak-signal communication by Amateur Radio, including JT65 and WSPR. He chases DX from 160 meters through the microwave bands.

This month's program is a very special presentation that you do not want to miss.



Joe Taylor, K1JT

Upcoming Regional Hamfests April 2020

April 19th: **2020 North Jersey Hamfest** 8am at Roxbury Senior Center, 72 Eyland Ave, Succasunna, NJ 07876. Flyer: <http://splitrockara.org/wp-content/uploads/2020/01/Hamfest2020-4.png>

April 25th: **2020 York Hamfest** 8am to 1pm at Elicker's Grove Park, 511 Roth Church Rd, Spring Grove, PA 17362. Flyer: <http://www.yorkhamfest.org/wp-content/uploads/2019/09/2020-York-Hamfest-9-30-19.pdf>

April 29th: **RF Hill Amateur Radio Club Auction and Sale** 7:30 pm at Sellersville Fire Department Banquet Hall, 50 N. Main St., Sellersville, PA 18960. Flyer: <http://rfhillarc.club/auction/>

Items for Sale

Transceivers For Sale:

- **Icom 7600** - Mint. All accessories including manual and box. **\$1,250.**
- **Kenwood TS-590SG** - Mint condition- only 2.5 months old. **\$1,000.**
- Late serial number **ICOM 706MK2**. Voice synthesizer, 1.9 narrow SSB filter. Complete with hand mike, mounting bracket, screws, uncut power cord.

Full output on all bands 160-440. **\$550**

Add auto tuner AT-180 for \$200 more.

For any of the above contact **Art, NC2CPR. Artarnold at yahoo dot com**

Antennas for Sale:

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

Hy-Gain TH6DXX - 20/15/10m: **\$150.00**

Hy-Gain 402BA - 2 Element 40m Beam: **\$200.00**

They will be disassembled and marked for easy reassembly and transportation.

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

Cushcraft Model A-3WS 3 element WARC bands beam antenna still in the box never opened. Will accept any reasonable offer for it or willing to trade or deal. If interested please contact **Jack Froehlich, W2AF** at 856-809-2965 or 609-352-9696.

The antenna can be picked up in Atco, NJ. Thank you for your time.

BUS TRIP
HAMVENTION IN DAYTON OHIO
 Thursday, May 14 - Sunday, May 17, 2020
 South Jersey Radio Association

CANCELLED

Registration and Payment Deadline is March 1st

Open to Everyone

Fully Refundable
 Payment refunded in full if the trip is canceled by the SJRA for any reason

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 org*. A calendar and more information can be found on the SJRA web site.

March Meeting:**Is the Fourth Wednesday, March 25, 2020**

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

Program For March:

The March Program will be "DXing with WSJT-X: FT8 and Beyond" presented by Dr. Joe Taylor, K1JT.

SJRA Member April Birthdays

April birthdays are: Betty Fletcher, KB2WDG; Jack Gordon, WA2RHJ; Scott Holland, NK2N

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

April Meeting:**Is the Fifth Wednesday, April 29, 2020.****First Class Mail**

South Jersey Radio Association
15 Pelham Road
Marlton, NJ 08053

