



HARMONICS

1916

South Jersey Radio Association

2018



President's Message

Ken- K2WB

Fall will be here soon. The 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. 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 of our members are located in grid squares FM29 or FN20. Remember logs are due 10:59 PM on Wednesday September 19, 2018. The ARRL lists it in UTC.

The SJRA has grown to 121 Members, mostly due to the efforts of our VE team. We continue to run our membership drive. So far no one has tried to recruit friends. It is easy, sponsor 2 new members and get next year's membership for free. It could not be any easier. Contact Art N2CPR or Allan K3WWT for more details.

(Continued on page 4)

SJRA Survey of Interest Area Results

Rick Lawn – W2JAZ

A questionnaire was distributed and explained by Rick Lawn, W2JAZ, at the August membership meeting. The survey was done as a follow up to the focus group sessions held at the May general membership meeting. These discussions generated many ideas and suggestions from the participating members which were later summarized and shared with the board at their June meeting. A link to this follow up survey was also distributed to the entire membership via email, and members were allowed about two weeks to respond. This article will summarize the results of this survey and offer some suggestions about where we might go in the future.

A recent treasurer's report shows that SJRA is now 118 members strong. Of these 118 members 22 responded the questionnaire - 7 completing forms at the August meeting and 15 members who responded to the online questionnaire (almost 20%). While the percentage of those responding may seem low it is actually not as bad as it looks considering the average for such things, and at the time there were slightly fewer members who received the email notification. Surveys that showed no response to a question were interpreted as a NO vote.

(Continued on page 10)

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 Alan Handley, K3WWT, 610-532-5407 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> ★
★ *****

Officers

President: Ken Botterbrodt, K2WB
Vice Pres.: Jon MacMillan, W2MC
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Cor. Sec: Dennis Cioffi, AC2FO

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Rick Lawn, W2JAZ
John Doran, W2FDJ
Tony Canuso, N2ATB
Burton Sampley, NJ2IT
Al Witner, N3AVT

Committees:

Historian: Mark Walter, KD2JPW
Membership: Art Arnold, N2CPR and Alan Handley, K3WWT
Field Day: Ken Botterbrodt, K2WB
Contests: John Doran, W2FDJ
Repeater: Joe Fisher, KC2TN
Programs: Rick Lawn, W2JAZ
H&W: Roy Herman, WB2EOD; and Dara Herman, KC2THQ
Awards: Rick Lawn, W2JAZ
Hospitality: Jean Priestley, KA2YKN
Nets: Matt Grohgans, N2IDW
Publicity: Vacant (Please Volunteer)
Picnic: Vacant (Please Volunteer)
Ways & Means: Roy Herman, WB2EOD
Property: Jon MacMillan, W2MC
Web Site: Ira Weinstein, W2IRA

Harmonics Staff:

Publisher/Editor: Al Ziegler, KD2ST
Alternate Editors: Ted Groke, W2TAG and Jon MacMillan, W2MC
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, October 8, 2018. 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

Membership Meeting of August 22, 2018

The meeting was opened at 1935 by Roy, WB2EOD, with a flag salute.

Minutes of the July meeting were approved as printed in Harmonics, motion by W2JAZ/N2ATB.

Roy gave the treasurer's report, 118 members, Approval motion was made by W2RLE/KN2N, Motion passed.

Membership by N2CPR- Approved: Sue Nagy, KD2QBV: new submittals; Lorraine Thome KD2QHZ, Bob Sunbury, KE3FF (and two sons, calls not read).

VE- we've hit the 250 mark for tests given. In 2017 there were 30,000 new hams.

FD- scores to be in Harmonics.

Health & Welfare- August cards sent out, Sept list sent to Harmonics. There was a report that Bill Houser, KN3EUF became SK. Abby MacMillan, fell this evening, causing the absence of VP Jon MacMillan, W2MC.

Programs by W2JAZ: August- Civil Air Patrol, history and present: Sept- consignment auction.

DX by N2VW- "It exists"

W2JAZ passed out questionnaires regarding the discussion group answers, they are also available on the website.

Old business; There was some discussion regarding the 8/20 net, some believed the repeater was down, others that net control forgot. Art, N2CPR, offered the services of the 145.370 as a fallback, but there

being other opportunities, and an existing plan, the situation was held for discussion by the BOD.

Minutes of August 1, 2018 BOD Meeting

The meeting was opened at 1935 by Ken, K2WB at the Gibson House. The minutes of the June BOD meeting were approved as submitted, motion by N2HQL/NJ2IT.

Roy, WB2EOD gave the treasurers report, 117 paid up members, approved on a motion by N3AVT/W2FDJ.

Membership by Art, N2CPR: Susan E. "Sue" Nagy KD2QBV; approved on motion by N2CPR/NJ2IT

Harmonics: Drop printing to 90 copies/month. We should promote membership drive. Final Field day scores to be printed. Put in part 2 of Al's DX cluster article. Welcome to new members. Make sure 6M SSB net is correctly stated as 1st Thursday.

Repeaters: K2AA working, K2UK still on the air. The proposal was changed from "Borough of Pine Hill" to "Pine Hill MUA". Ken has a quote from manufacturer for new antenna - 2M only, there is no 2M/440, dual band repeater antenna manufactured.

Contests as printed. No date for club QSO party has been selected. After discussion, October 13, 2018 at 1800 Z was selected.

Health & Welfare: Roy, WB2EOD has sent e-mail requesting birthday month (only) to update roster.

(Continued on page 4)

(President's Message from page 1)

Our General Amateur Radio Conference is on November 10, 2018 planning is on the way, we will need help. Stay tuned for more details as we plan this new event and opportunity to expand your amateur radio horizons. There will be 20-minute topic presentations during the day such as using repeaters, getting on the air, low cost first station, and more. The day will start with a VE test session. The door fee (TBD) will include lunch. We are also going to try to get some vendors to attend. In addition to all of this there will be a workshop to help program your radio and other testing equipment to help check out your radio. A complete list of presentations will be coming out in the next coming weeks.

Contact me, **ken at k2wb dot com** if you have any suggestions of topics you would like to see at the conference.

The Club QSO Party rules are complete and started to be distributed. This is a fun activity. There is a double dip opportunity. If you operate as K2AA/102, the contacts you make count towards your own contacts. The best part is that you can work the same stations again as yourself when you are not operating as K2AA/102. Contact me **ken at k2wb dot com** if you would like to sign up to operate as K2AA from your own QTH. The 2018 Club QSO Party will be on October 13th at 18:00 UTC (14:00 EDST) and will run to Sunday October 14th at 17:59 UTC (13:59 EDST).

There has been significant progress with moving the K2UK repeaters. It has been decided to add the 3rd C4FM repeater, Joe KC2TN generously donated 1/2 the money for the repeater. We will vote on the expenditure at the next meeting. We got another anonymous donation at the BOD meeting as well.

We are trying to restart the Swap Net, if the club is interested. Let any Board Member or

Officer of the club know if you think that this a good or bad idea.

Lastly, there are number of members of the club who can no longer make it to the meetings for various reasons. The Health and Welfare committee can coordinate riders with drivers. If you can't make it the meeting because of transportation issues or would like to help, or would like to offer your services 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.

73's

Ken- K2WB



(Meeting Minutes Continued from page 3)

Nets- Matt N2IDW- Website calendar needs correction, net tab is correct. Standard Net control Ops to be listed in Harmonics. A swap net may be started if a time and net control are obtained.

VE team- Al N3AVT; Last session had 1 admin task, no testees. Question: Is a hand addressed copy sent out to new hams (all testees) ?

Web team- Need calendar updated done regularly.

Unfinished business: Discussion regarding the proposed "Ham Conference" it will happen on November 10, 2018, beginning with a test session. Subjects to be announced (as volunteers are obtained).

LV79 - no contacts could be obtained for this year.

New Business- none.

Submitted by Lou Priestley, N2HQL

Consignment Auction

This month's program is the Consignment Auction, so bring your spare gear and we will sell it for you. Also, bring plenty of money because you will want to bid on those nice items others are bringing to the sale. The auction benefits the club thru a suggested donation of \$5, collected from the Sellers. Bidders are, of course, free. Auction amounts go directly to the sellers. This is a FUN event, hosted by SJRA. Remember to bring your old Ham Stuff and turn it into Green!

Items for Sale

Kenwood TS-870 with Kantronics KAM-II TNC for RTTY.

Original Kenwood Box, Cables, Power Cord etc. Clean Non-Smoking environment. Contact: ken at k2wb dot com



SJRA NETS

SJRA Net News

Matt - N2IDW

SJRA Membership Drive

Attention SJRA Members: Sign up two new members by December 31, 2018 and get your 2019 Membership free.

For additional information please contact Art, N2CPR or email:

Membership at sjra dot org

SJRA NET RUNNING AVERAGES

Net Type	Avg. No. of Participants
2 Meter FM Repeater	11
2 Meter Fusion Repeater	8
2 Meter SSB	5
6 Meter SSB	7

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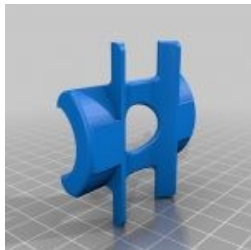
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3D Printed Parts for Ham Radio

Dan, KB6NU, cwgeek at kb6nu dot com

One of the things that I keep telling myself that I need to learn how to do is 3D printing. This morning, I ran across a couple more 3D printing projects for ham radio that I thought I'd pass along.

The first I found on reddit: 3D Printed Parts for Portable Tape Measure Yagi Designs (https://www.reddit.com/r/amateurradio/coments/963br3/3_priuned_parts_for_portable_tape_measureyagi/).



The summary on Thingiverse (<https://www.thingiverse.com/thing:3042505>), which is a website where "makers" share their designs, says:

These parts are made for use with 1-in. PVC pipe and 1-in. Harbor Freight tape measure steel. You can use electrical tape to attach the element holders to the side of the pipe, and use the driven element bridge to give structural rigidity across the driven dipole element. I have used this with up to 5 elements on 2m with good success. When not using the antenna, just pinch the elements to remove them from the holders and store them INSIDE the tube! you can add some end caps to make this ultra-portable. Use these parts with any of the multitude of tape measure YAGI design guides online.

Here's a look at an antenna made with these parts:

The element holders are attached to the boom with electrical tape in the photo be-

low. While I haven't tried it, I'd suggest that the antenna might be a bit more robust if you could screw or perhaps glue the holders to the boom.

There are lots of other cool amateurradio



3D printing projects available on Thingiverse (<https://www.thingiverse.com/search?q=ham+radio&dwh=415b6d8da129c3c>). Browsing through the list quickly, here are just two that look like they might be useful to me:

Soldering Fingers (<https://www.thingiverse.com/thing:1725308>). This project looks simple and quick. μ Bitx Case (<https://www.thingiverse.com/thing:2925336>). I still got to do something with the μ Bitx I bought. This looks like it might get me started.

Finally Getting in Gear

Last week, I attended a 3D printing class at our local maker space, All Hands Active (www.allhandsactive.org), and now I feel like I can finally attempt a 3D printing pro-

(Continued on page 8)

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.

Congrats to Jack, N2VW who also had a clean sweep working the recent 13 Colonies event!

Please send me your summary sheet so I will be able to list your claimed score next time. John/W2FDJ **contests at sjra dot org**

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

The Big Event coming in a few weeks on Oct 13-14 is of course the SJRA sponsored "Club QSO Party". This is the second year for the event in which club participants will use a suffix that denotes the years their club has been in existence. SJRA members will use their call/102.

It's an easy special event (contest) with even repeater contacts allowed for points. We will review at the Sept 26 meeting and answer questions. The rules will be emailed to SJRA members and posted on SJRA.org

K2AA /102 will be on the air with club members operating on a coordinated schedule out of their own shacks. This year a rule change allows contacts made using the club call sign to also count against the individual operator's submission. The various club stations count as bonus.

The Objectives of the event are to publicize all participating radio clubs ages and history while encouraging activity on the bands and club station activation. Stay tuned for more.

Every Tuesday only

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

Every Wednesday only

CWops Mini-CWT test 9—10AM, 3 - 4 PM, 11-12PM. (Three one hr sprints)

Every Thursday only

NCCC Sprint 10:30 PM—11PM (yes 30 min)

Every Thursday only

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

220 Mhz Fall Sprint 9/25, Tue 7PM EDT -11PM EDT 220 Mhz — modes not specified.

CQ WW DX Contest RTTY 9/28-30 F r i 8PM EDT to Sun 8PM EDT HF; RTTY

432 Mhz Fall Sprint 10/3 Wed 7PM EDT to 11PM. 432 Mhz- Modes not specified.

Microwave Fall Sprint 10/6 Sat 8AM EDT to 2PM. Microwave- modes not specified.

CLUB QSO Party (SJRA Sponsored) 10/13 -14 Sat 2PM EDT to Sun 2PM HF/VHF; All modes.

ARRL School Club Roundup 10/15-19 Mon 9AM EDT to Fri 8PM. CW, Phone, Digital. All bands except 60, 30, 17, & 12m.

(Continued on Page 8)

WORLDWIDE DISTRIBUTION



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(3D Printed Parts for Ham Radio – Continued from page 6)

ject. I'm thinking about starting out with the simple Soldering Fingers project. If that goes well, I'll try a Raspberry Pic case and finally start using that in the shack. And, while these projects all seem pretty cool, I feel like I'm only scratching the surface.

Have any of you 3D printed anything cool for your ham radio projects? Is there another source of designs for ham radio 3D printed stuff besides Thingiverse?



When he's not 3D printing enclosures for his ham radio projects, Dan blogs about amateur radio, writes exam study guides (www.kb6nu.com/study-guides), and operates CW on the HF bands. Look for him on 30m, 40m, and 80m. You can email him about your experiences with 3D printing at cwgeek@kb6nu.com.

New Members

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

- Susan (Sue) E. Nagy, KD2QBV
- Lorraine Thone, KD2QHZ
- Robert (Bob) Sunbury, KE3FF
- Jimmy Sunbury, KD2NIG
- Michael Sunbury, KD2NIH

(Radio Sport aka Contests – Continued from page 7)

CQ WW DX Contest SSB 10/26-28 Fri 8PM EDT to Sun 8PM. HF & Phone.

Other Thoughts

Here is a You Tube video for this month that I recommend for viewing. Just go to <https://www.youtube.com> and enter the title of the video in the search window.

Once in a while I watch parts of the Ham Nation YouTube programs, the most recent being this past week. The video is 1 hour and 15 minutes long, so pull up your favorite beverage before starting. Topics covered; a look at new ICOM products, Coax and connectors, Nightfire electronic kits and parts, Space weather report, and Ham Radio on RV's.

“Ray’s Sneak Peek - Ham Nation 365” By Ham Nation

If you have some recommended video's let me know and we will share them with the membership. /John W2FDJ

Congratulations!

To the VE Team for facilitating 250 total new or upgraded licensees to date.

New Jersey QSO Party

Date: September 15 & 16th, 2018

Time: Sat. 1200 (Noon) EDST (1600 UTC) to 2359 EDST (0359 UTC) and Sun. 10000 EDST (1400 UTC) to Sun. 1600 EDST (2000 UTC).

Bands: 80, 40, 20, 15 & 10 meters ONLY.

Suggested Frequencies:

Band	CW	Phone
80M	3.550	3.825
40M	7.050	7.190
20M	14.050	14.250
15M	21.050	21.400
10M	28.050	28.400

Modes:

- CW and Phone.
- No repeater or internet modes.

NJ Club Aggregate Score:

- Entrants should specify which ARRL affiliated club, if any, they wish their score to be attributed.
- Must be a bona-fide member in good standing of said club.

Exchange:

- NJ Stations RS(T) and county.
- Out of NJ stations RS(T) and state/province/DX.
- All DX Stations use DX.

See http://www.k2td-bcrc.org/njqp/njqp_rules.html for full details.

Test Session Report for August 15, 2018

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.)

Lorraine Thone, KD2QHZ
254 S. Church St.
Moorestown, NJ 08057
Earned her Tech

Thomas D. Duff, KD2QHY
1514 Grant Rd.
Berlin, NJ 08009
Earned his Tech

Robert F. Hermanns Jr., N2JAL
3435 Cooper Ave
Pennsauken, NJ 08109
Earned his General

James H. Sunbury, KD2NIG
33 Sleepy Hollow Dr.
Tabernacle, NJ 08088
Earned his General

Robert C. Sunbury, KE3FF
33 Sleepy Hollow Dr.
Tabernacle, NJ 08088
Earned his Extra

The team processed one administrative renewal.

Total New or Upgrades to Date

	Tech	General	Extra	Total
To Date	149	65	36	250

Upcoming Regional Hamfests October 2018

October 6th: **Bergen Amateur Radio Association Hamfest** 8am to 1pm at Westwood Regional High School; 701 Ridgewood Rd, Township of Washington (Bergen County), NJ 07676. Website: <https://www.bara.org/event/bara-hamfest/>

October 21st : **RF Hill Amateur Radio Club Hamfest** 7am to 1pm at the Sellersville Fire House; 50 N. Main St (Bethlehem Pike), Sellersville, PA. Website: <https://rfhillarc.org/wp-content/uploads/2018/05/HamFest2018.pdf>

Save The Date

Saturday, November 10, 2018
SJRA'S 2018 Conference

8AM to 5PM
Location TBD

- ◆ VE Session. Registration at 8:00am
Testing to start at 8:30am. Testing is free to all applicants.
- ◆ 20-Minute Topic Presentations.
 - ◆ Workshops.
 - ◆ Vendor displays (TBD).
- ◆ Door fee (TBD) will include lunch.
- ◆ Additional information will be sent out as details are finalized.

(Survey Results from page 1)

Areas of greatest interest were those of a social nature with 59% of the respondents favoring a regular breakfast get together and 71% suggesting they would enjoy "eye ball" QSOs where the topic of discussion would vary.

Other topic areas that showed interest from members were Digital Modes - 41% or 9 respondents, 6 Meters and Up - 36% or 8 members, and CW Operation - 36% with 8 respondents. Six club members showed interest in participating in a New Hams group which equaled interest shown in a QRP group. Other interest areas represented in the survey such as DX Chasing and Contesting and Awards showed fewer than 6 members interested.

Other suggestions made by members who participated in the survey were a starting a "makers" or kit building group (QRP or other gear) and having a social gathering at a restaurant after the meeting. Another member suggested a repeater NET aimed at discussing and solving problems of a technical nature. Such a NET may have a volunteer organizer.

Survey participants were also asked if they would be willing to serve, at least in the early stages, as an interest group coordinator. The response to this question was disappointing with only 2 board members volunteering to serve in this capacity for several interest groups.

Following the top recommendation, a regular informal Saturday morning breakfast get together at an area restaurant seems to be a good first step. Look for further announcements about a date and location for the first SJRA Saturday morning breakfast!

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 \$25 (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 are current 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.

**September Meeting:
Is the **Fourth** Wednesday, September 26, 2018**

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 September:

Annual Consignment Auction

SJRA Member October Birthdays

October Birthdays are: Ken Botterbrodt, K2WB; Bill Dreisbach, KB2MMI; Craig Hodsdon, WE2Q; Ken Hoffner, KD2OZC; Gene Kuhns, WB2WEK; Burton Sampley, NJ2IT; Robert Turner, Jr., N2SCJ; Jim Vecchiola KR2T

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

**October Meeting:
Is the **Fourth** Wednesday, October 24, 2018**

First Class Mail

South Jersey Radio Association
15 Pelham Road
Marlton, NJ 08053

