



HARMONICS

1916

South Jersey Radio Association

2016



Urge the Senate to Support the Amateur Radio Parity Act

Amateur radio operators provide communications support for, and participate in public service events on behalf of our communities. During and in the aftermath of disasters and emergencies, when other forms of communications are unavailable, we provide communications for first responders and Federal, state and local governmental agencies and non-governmental agencies, and to our neighbors when communications systems are overloaded or fail. Radio Amateurs contribute to the future of telecommunications as we participate in the development of innovative technology in

this digital age. Amateur Radio is non-commercial, and we provide our services at no charge to anyone.

We cannot do any of these things, however, unless we can erect an effective outdoor antenna at our residences.

On September 12, The US House of Representatives passed the "Amateur Radio Parity Act" to protect the rights of Radio Amateurs. Now is the time to contact your U.S. Senators and urge them to support this important legislation.

Go here, fill in your zip code and you're almost done:

<https://arrl.rallycongress.net/ctas/urge-senate-to-support-amateur-radio-parity-act>



Please check out this month's Monthly Puzzle so you can prove that you're as smart as you think you are; then email Don, WA2DUE, and tell him how you came to your solutions.

ed, W2TAG.

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> ★

Officers

President: Ken Botterbrodt, K2WB
Vice Pres.: Jon Mac Millan, W2MC
Treasurer: Ray Golley, N3RG
Rec. Sec: Lou Priestley, N2HQL
Cor. .Sec: Dennis Cioffi, AC2FO

Directors:

Roy Herman, WB2EOD
 Rich VonLintig, KV2R
 Rick Lawn, W2JAZ
 Ira Weinstein, W2IRA
 Tony Canuso, N2ATB
 Ted Dean, KD2ARD
 Al Witner, N3AVT

Committees:

Historian: Mark Walter, KD2JPW
Membership: 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: John Fogleboch, WY2J
Publicity: Vacant (Please Volunteer)
Picnic: Vacant (Please Volunteer)
Ways & Means: Ray Golley, N3RG
Property: Jon Mac Millan, W2MC
Web Site: Ira Weinstein, W2IRA

Harmonics Staff:

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

LOCAL WEEKLY NETS

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

Harmonics Deadline

Articles submitted for the next Harmonics will be accepted until Monday, October 10, 2016. 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

Membership Meeting Minutes of 9/24,2016

The meeting was held at the Gibson House and opened by Ken, K2 WB, at 1933. Minutes of the July meeting were approved as printed in Harmonics; motion by N2HWL/WA2DUE. Treasurer's report by Ray, N3RG. Motion by Ray/Dom.

Badges were delivered to Rizz and N2CKW. Ken thanked those who arranged the hundredth anniversary celebration.

Health & Welfare, Roy, WB2EOD-mentioned seeing Jack, N2VW, at HRO.

Programs- Rich, W2JAZ: September- Member Auction; October, open; November- Satellite Operation; December- Christmas Party; January- Estate Auction; February- White Elephant Auction.

Corresponding Secretary- No report.

Harmonics- Arrived Late, pick up your copy on the table, those left will be mailed.

Nets, John, WY2J- Two and Tem Meter nets doing ok.

VE Team- 180 tests given so far. (N3AVT).

Contests, John, W2FDJ- 9/25 thru 9/28 Classic exchange- phone HF, 6, 2; 10/1 thru 2 Oceana DX- phone; 10/8-9 Oceana DX CW; 10/29 thru 30 CQ WW DX SSB.

Repeater, Joe, KC2TN- Still working. A long squelch tail at end of transmissions was noted.

Club Stuff, Joe, KC2TN- Taking orders.

Web Team- No report.

100th Anniversary- Thanks to all committee members, the team is officially disbanded.

No Old Business

New Business- Has anyone heard CY9C or HH2AA ?

Break at 2015. Program began at 2030 with Matt, N2IDW, demo of SDR Play.

Board Meeting Minutes of 10/7/2016

The meeting, held at the Gibson House opened at 1923 by Ken, K2WB. All members were present except Ray, N3RG. Minutes of August Board meeting were approved as printed, Motion by N2HQL/N3AVT.

Membership Committee- Still need "Face" at meetings, to assist Alan, K3WWT. Ted, KD2ARD, volunteered. Al, N3AVT, suggested Ted be introduced as membership person at the next meeting.

A motion was made by Roy, WB2EOD/Al, N3AVT, to invite Bill Leubkemann WB2LCC to Join SJRA; motion passed.

Corresponding Secretary- Dennis, AC2FO- Nothing to report. Dennis will prepare thank you to: N3RF- Robert Famiglio; The "Assemblyman" Chris Canatella; The "Pop Shop;" HRO; and our Section Manager for their attendance and/or donations to the banquet.

(Continued on page 6)

Monthly Puzzle

Don – WA2DUE, wa2due at arrl dot net

Reviewing last months puzzles:

Art can cut a cord of wood in 7 hours, and his daughter (being much more energetic) can do the same in 5 hours. If Art starts at 8AM and his daughter joins him at 10AM at what time will they finish cutting this cord of wood?

Answer: Art cuts a cord of wood at a rate of $1/7$ cords/hour. Both Art and his daughter cuts wood at a rate of $(1/7 + 1/5)$ or $12/35$ cords per hour. Since Art has already cut $2/7^{\text{th}}$ cords when his daughter joins him, they cut $5/7$ cords divided by $12/35$ or 2 and $1/12$ hours. They are finished cutting at 12:05 PM.

A rectangle has a perimeter of 34 feet. The length of a diagonal in this rectangle is 13 feet. What are the lengths of its sides?

Answer: Let x and y equal the length of the sides of the rectangle. Then $2x + 2y = 34$ feet and $x^2 + y^2 = 132$ and substituting $(17 - x)$ for y in the second equation we get $2x^2 - 34x + 120 = 0$. Solving for x we find $x = 12$ and therefore $y = 5$.

For this month let us consider the following problems:

A building has a triangular base. The lengths of the sides of this triangle are 145, 257, and 290 feet respectively. Find the area of this triangle to nearest square foot.

An coil and a capacitor are connected in parallel to form a tank circuit. The coil has an inductance of 10 microhenries. At a frequency of 3.7 megahertz what is the value of the capacitance in picofarads?

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

President's Message

Ken – K2WB

Fall will be here soon Autumnal Equinox is September 22nd. If you look carefully the signs are already showing, with a little yellow, or red is starting to appear from the green of summer. This is the best time to spruce up the antenna farm and get ready for the fall radio contest and DX season. 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, with the exception of our Centennial Members

The 100th anniversary committee has completed their mission, all that is left is to finish the scoring of contest and issue certificates and awards. Thanks to all that help.

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 ca coordinate riders with drivers. If you can't make it the meeting because of transportation issues or would like to offer assistance, 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.

FOR SALE:



SB-220 fully updated with Harbach mods including softstart, softkey, new fan, new caps and diode board, and new RFI circuit. Tubes are still in fine shape. 80-10 meters and will work on WARC bands with somewhat reduced output. Wired for 220 but can easily be rewired for 120 and I've used it at that voltage. Asking \$750 and will not ship.

FOR FREE: A 10' x 1-1/2" fiberglass boom. This one has been out in the weather but the first owner coated it before use so it is still in useful condition. It is an excellent boom for use in Satellite or EME installations. Help me get it out of my backyard. If no one wants it I will saw it up and put it out as trash.

**Test Session Report for:
September 14, 2016**

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

Jermaine D. Peterson
47 Albertson Ave.
Bridgeton, NJ 08302
Earned his Tech

Joseph Lewis
8426 Eden Lane
Pennsauken, NJ 08110
Earned his Tech

Dennis A. Colasurdo Sr., KD2LRD
2 Winslow Dr.
Hammonton, NJ 08037
Earned his General

	Tech	General	Extra	Total
To Date	109	49	25	183



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Award Nominations Please!

It's not too early to be thinking about SJRA awards given out annually at the December Holiday dinner party. Each year SJRA recognizes significant accomplishments of its members by presenting three prestigious awards. These awards bring distinction and recognition to deserving amateur radio operators for their exceptional contributions to the hobby and the SJRA. The SJRA website has more information about these awards and past recipients.

A "Nominate Button" on the Awards section of the SJRA website is designed to allow members to easily submit nominations online. Online nominations are sent directly to Rick Lawn. Alternately, you can submit your written nominations to any board member, or use the nomination form recently emailed to the entire membership. Your nominations need not be lengthy and can also be emailed to Rick Lawn, W2JAZ at rjlawn *at* gmail *dot* com or to his home address: 1021 Owl Lane, Cherry Hill, NJ 08003. The deadline to submit nominations this year is November 23, the last general meeting before the holiday party.

If you notice that this month's Harmonics seems a little smaller than usual, it's because I didn't receive anything to put into this issue. Please consider adding your article to next month's SJRA Harmonics

ed, W2TAG.

(Meeting Minutes from page 3)

Special thanks to the Historical Committee for the fine display at the banquet.

Contests- SJRA won low power multi/Multi for the 2015 November SS.

Health & Welfare- No report.

Awards- Gear up time, notes to be prepared for printing in Harmonics.

Programs Addition- October- Mario, N2AK, will do a demo of E-Z NEC- antenna modeling software.

Web Team- Must get together to work on timeline.

100th - Ken working on scoring for QSO party; some bills still outstanding; a few cups left to ship.

Our offer to sponsor a plaque for the winner of 6A for Field Day was declined by the league because they don't want to make a competition of Field Day.

Motion by N2HQL/N3AVT to sponsor our own award for whoever wins 6A at Field Day; motion passed.

Rich, KV2R, presented a list of items still at his QTH, he recommended some be discarded and others to be scanned.

Work on the Christmas Party will be started.

Minutes by N2HQL

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

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

SJRA Jackets, Shirts, Hats

Order NOW - Next order going in soon!



Spring Jacket is \$44 (S,M,L,XL), Fall Jacket is \$55 (S,M,L,XL),
Shirts are \$27 (S,M,L,XL), Hats are \$20 (*New Lower Price*, 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 second Wednesday of each month. The location is: 443 Commerce Lane, Suite 5, West Berlin, NJ 08091. Registration is at 7:00 PM and testing begins at 7:30PM. Walk-ins are accepted.

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

September Meeting:

Is the Fourth Wednesday, September 28, 2016

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

Program For September:

Consignment Auction. Please Bring Your Good Ham Items

SJRA Member October Birthdays

Ken Botterbrodt, K2WB; Craig Hodsdon, WE2Q; Burton Sampley, NJ2IT; Robert Turner, Jr., N2SCJ Jim Vecchiola, KR2T.

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

Ride Needed

We have two members who need rides to our meetings. If you come from or go through Mount Holly/Lumberton or Medford (near the Library) please contact me ASAP!!!

Ken, K2WB

Ken at [k2wb dot com](mailto:k2wb@com)

First Class Mail

South Jersey Radio Association
PO Box 1026
Haddonfield, NJ 08033

