



HARMONICS

1916

South Jersey Radio Association

2017



10M SSB Net Moves to 2M Thursday 20 April 2017

By John, WY2J, wy2j at arrl dot net

Introduction - For the 10 years or so that your author has run the nets for the SJRA we have had 2 meter FM repeater nets on Monday nights and 10 meter SSB simplex nets on Thursdays. Participation on the 2 meter FM net was usually good except for the year that it took to get the aging repeater and antenna replaced. The 10 meter nets never came close to the 2 meter nets in participation, an average of 4 or 5 if we were lucky. The excuse given for not calling in was always I can't hear many of the other stations or they can't hear me. I knew this was a combination of technical problems including poor azimuth coverage with horizontal polarization, elevated elevation antenna patterns due to low electrical height at 10 meters and multiple azimuth nulls with common G5RV wire antennas on 10 meters. I also knew that the users were not going to invest in any new equipment or antennas just to support a net.

Art, N2CPR, and your author had run a few tests using SSB simplex on 2 meters with our vertically polarized omnidirectional ground plane and J-Pole FM antennas. Results were far better than 10 meters but the data was limited. We shelved it because few club members had 2 meter SSB capability, most SSB rigs were HF + 6M.

In early 2016 the K2AA repeater was replaced again with a Fusion machine with a WiresX VOIP node. I made a few local QSO's and a few WiresX ones within the US, UK and Australia.. It was great fun working the world with a 5 watt FT2D HT but I didn't find many club members on K2AA Fusion. At the September 2016 club meeting I took inventory of who owned a Fusion rig and who was going to put it on their Christmas list. I got about a dozen positive responses so I put together the three month Fusion experimental net that ran once a month from October thru December. On the first night we got 19 stations calling in including a Florida one via WiresX, a huge success. We finished the experimental net the end of 2016, restructured the nets schedule to four 2M FM, two 2M Fusion and one 10M SSB each month. Participation on FM and Fusion has grown to 12 to 18 participants each net while 10M SSB has stalled out at 5 to 7 maximum. I talked to Art, N2CPR, the control operator for one of the Fusion nets and 10 meter SSB simplex before last month's club meeting and we agreed that 10 meter was dead and was going to be retired. We have spent years trying to fix it with no success. Goodbye 10, hello 2.

Getting Started on 2 Meter SSB - I decided to get some data on ownership of 2M sideband rigs and interest in this type of net at the March club meeting with my old ap-

(Continued on page 6)

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
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, May 8, 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

South Jersey Radio Association Membership Meeting, 22 March 2017

Called to order 1930 Introductions how many contacts did you make this year

Motion to approve minutes as published by N2ATB, seconded by N2VW, motion carried

Treasurer's Report by N3RG Motion to accept by W2HJG seconded by W2JAZ, motion carried. Treasurer reports 102 paid up members. Ray will look for last years members who have NOT renewed.

Health and Welfare: Roy, WB2EOD, A moment of silence was observed for past president and long time member Fred Holler, W2EKB, (SK) who recently passed away. A sympathy card has been sent to his family.

Programs: March, Virtual shack tours; April, AC2FO will make a presentation on loop antennas; May, Storm Robotics Team and elections.

VE Team: Al, N3AVT, was absent, no report.

Nets: John, WY2J, Average of 12-15 on VHF Nets, 10 meters slightly less. John is considering a 2 meter sideband net to replace the 10 meter net. A survey was circulated to get an idea of how many have 2 meter SSB equipment interest level. Dom KD2EPM will take over first Monday net from K3WWT who will be moving out of the repeater range.

DX, Jack, N2VW Reports: S21ZED Bangladesh thru 29 March; WW6RG/KH9 Wake Island 31 March thru 4 April; 3D2R Rotuma/Fiji 2 April thru 22 April Contest W2FDJ

In the 2016 phone DX contest, SJRA placed first in SNJ and 6th in US and Canada with a score of 249,678 points.

Repeater: Joe, KC2TN, no problems reported.

Web team: Ira, W2IRA, not present, no report.

Membership: No report.

100th Anniversary: QSL and badges awarded to members.

Nominating committee: Ray, N3RG; Joe, KC2TN; and Rich, KV2R.

First reading, Officer Nominations by committee:

President-Ken, K2WB; Vice President Jon, W2MC; Rec. Sec. Lou, N2HQL; Cor. Sec. Dennis, AC2FO; Treasurer, Roy, WB2EOD.

First reading, Board of Directors Nominated by committee:

WB2EOD, W2IRA, KV2R, W2JAZ, N2ATB, KD2ARD, N3AVT

Board of Director Nominations submitted to the committee:

NJ2IT by N3AVT; W2FDJ by W2JAZ; N2CPR by W2JAZ; N2IDW by WB2EO.

Nominations from the floor:

None.

Old Business: Certs for KC2TN and

(Continued on page 7)

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.

At the last club meeting (March 22) a handsome ARRL plaque was unveiled for the membership to admire. This plaque, sponsored by ICOM, was awarded to K2AA for its 1st place finish in SNJ during the 2016 ARRL International DX Phone competition. The award indicated that SJRA had also placed 6th in North America with its 249,678 points, 435 QSO's. The following were named as operators on the plaque:

Ken, K2WB; Joe, KC2TN; Roy, WB2EOD; Dara, KC2THQ; Burton, NJ2IT; Bob, KE2D; Bob, KD2AWE; Mark, KD2JPV; and Holden, KD2JPV.

Congratulations to each operator on this honor!

I got a bit distracted at the meeting, but from my records I think I have the following correct.

SJRA Certificates were awarded to the following members:

Bob, KE2D, for 1st place Mercer County single op low power in 2016 NJ QSO Party.

Pete, K0BAK, for 1st place and special recognition as NNJ Rover in 2016 NJ QSO Party.

Jon, W2MC as K2AA/R for 1st place and for special recognition as SNJ Rover in 2016 NJ QSO Party.

Joe, KC2TN for 1st place in class B SNJ 2016 ARRL June VHF operating the K2AA/100 station in the contest.

Roy, WB2EOD for 3rd place class 3B SNJ 2016 ARRL June VHF.

Joe, K2WJL for 1st place class S power B SNJ 2016 ARRL International DX Phone.

Rich, KV2R, for 1st place class 3B SNJ 2016 ARRL Jan VHF operating the K2AA/100 station in the contest.

Bob, KE2D for 1st place class G SNJ 2015 ARRL 160M contest.

Recent posted results - see arrl.org or CQ

Nothing new here this past month.

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).

144 Mhz Spring Sprint.

4/17, Monday, 7PM EDT to 11PM.

222 Mhz Spring Sprint.

4/22, Monday, 7PM EDT to 11PM.

432 Mhz Spring Sprint.

5/3, Monday, 7PM EDT to 11PM.

Microwave Spring Sprint, (902 Mhz and above).

5/6, Saturday, 8AM EDT to 2PM.

50 Mhz Spring Sprint.

5/13, Saturday, 7PM EDT to 11PM.

10-10 Int Spring Contest CW.

5/5-6, Friday, 8PM EDT to Sunday 8PM.

(Continued on page 10)

Interesting Gadgets I Wish I Had Time For

Dan, KB6NU, cwgeek at kb6nu dot com

I'm on a lot of mailing lists and participate in a bunch of amateur radio forums. As a result, I see a lot of interesting gadgets that guys are buying or are thinking about buying. Here are three of the latest that look interesting to me. I wish I had time (and money) to purchase all of these and try them out.

Android antenna analyzer

On Reddit (https://www.reddit.com/r/amateurradio/comments/60nnp1/fnally_got_my_mini60_ebay_antenna_analyzer_time/), some of the guys have been talking about the Mini60 Antenna Analyzer (<http://www.ebay.com/itm/CW-USB-Interface-Cable-WINKEYER-compatible-3-5mm-plug-/132121085623?hash=item1ec307c6b7:g:up8AAOSw241YeTei>). Its frequency range is 1 - 60MHz, but the cool thing about this device is that you can use it standalone with the built-in LCD display or with some software (<http://www.jtelectronics.co.nz/>

[information_links/MINI60/Add-Bluetooth-Module-To-MINI60-Antenna-Analyser.htm](http://www.kb6nu.com/wp-content/uploads/2017/03/mini60-ant-analyzer.jpg)) and a tablet with a Bluetooth interface to get fancy frequency vs. SWR plots. See <http://www.kb6nu.com/wp-content/uploads/2017/03/mini60-ant-analyzer.jpg> for a photo of the Mini60 Antenna Analyzer being used with an Android tablet.

Of course, this is made in China, but how can you beat the price? It costs \$112 shipped.

Multi-functional component tester

Here's another marvel of Chinese engineering and manufacture - a smart component tester (http://www.banggood.com/3_5inch-Colorful-Display-Multi-functional-TFT-Backlight-Transistor-Tester-p-1083042.html) for only \$30, shipped. It identifies and characterizes NPN and PNP transistors, capacitors, resistors, diodes (including Zener diodes), N-channel and P-channel MOSFET, IGBT, JFET, triacs, and batteries.

This isn't the first smart component tester to hit the market, but the unique thing about this unit is that it has a graphical dis-

(Continued on page 9)

PRINTING • DIGITAL PRINTING • WIDE FORMAT OUTPUT • LAMINATION • MOUNTING

PRINTING

SANDOVAL
Graphics & Printing L.L.P.

(856) 435-7320

Congratulations to South Jersey Radio on your Centennial

9 Minnetonka Road • Hi-Nella, NJ 08083
printing@sandovalgraphics.com



FILM OUTPUT • OFFSET PRINTING • COMPLETE GRAPHIC DESIGN • HIGH RESOLUTION • PROMOTIONAL PRODUCTS • GREENING • SILK SCREENING • EMBROIDERY

(10M SSB Net Moves to 2M from page 1)

proach, the survey. I was surprised that I got positive responses from 14 members at the meeting and picked up a couple of additions along the way, enough to justify a three month experimental net that will run in the discontinued 10 meter 8:00 PM time slot on the 3rd Thursdays. I was also concerned if signals would be high enough on a 2M simplex net to garner interest so I started collecting S - Meter readings at my QTH of the direct path signal (144.69 MHz) on the FM and Fusion nets. Below are the results from the FM net on Monday 3 April. S-9+30dB pins my S Meter.

K3WWT	S-9+10dB, (Net Control in PA)		
K2WB	S-9+30dB	WA2HJG	S-6
AA2AW	S-7	WA2DUE	S-8
W2FDJ	S-8 (H Pol)	N2CPR	S-9+30dB
N2IDW	S-9+30dB	KF3G	S-9 (PA)
AA2RR	S-9+30dB	KD2EPM/M	S-9+25dB
N2PKR	S-9+30dB	KC2SHO	S-9+25dB
WB2IQG	S-9+30dB	K2UT	S-7
K2GFY	S-9+10		

(All signals were received at WY2J using a Yaesu FTM-400XDR, 62 ft of 9913 coax and a Diamond X200 (6.0 dBi gain) antenna at 35 feet above ground in the eastern end of Cherry Hill.)

Schedule of Events - The experimental net will run for three months starting 20 April 2017 on the 3rd Thursday of each month. It replaces the 10 meter SSB net in the same time slot. Its primary purpose is to identify and solve technical and operational problems, verify member interest and give users a chance to evaluate their stations antenna performance while the weather is optimum to make changes.

Technical Requirements and Issues - This net will operate in the SSB sub band of 2 meters, tentatively on 144.270 MHz USB. This frequency may be increased later if elevated SWR becomes a problem with the existing

vertical antennas that may be tuned for the FM portion of the band.

It is recognized that the frequency set-ability accuracy of many 2 meter SSB rigs is inadequate for undistorted voice (Donald Duck effect) reception. You would normally correct this with your rig's RIT control, however on a net it is essential that all stations be on exactly the same frequency so RIT doesn't work. We are asking that you turn off the RIT and use the VFO main tuning knob to zero beat (an old AM term that means lose the Donald Duck voice) your rig to net control. This will put all rigs on the same frequency to within less than 50 Hz. Net control never changes his tuning. Touch up your tuning if your rig drifts during the net but only use net control as the reference.

It is absolutely necessary that every station participating in this net use an antenna that is omni directional in azimuth and vertically polarized. Gain is highly desirable but can only be obtained in the elevation plane. A good starting point is to use the vertical that you use on 2 meter FM. The height of the antenna is an extremely important factor in the range coverage of VHF simplex. An antenna at 50 ft elevation above ground has a radio horizon, where the line of sight (LOS) propagation ends, at only 10 miles but distances out to 50 or 100 miles are very useful especially in the summer time. For more information on LOS and over the horizon propagation at VHF/UHF see my series of HAM TECH articles published in Harmonics from October 2010 to January 2011.

Operations - Art, N2CPR, will be the control operator for this net. During the experimental phase John, WY2J, will participate and serve as a backup.

(Meeting Minutes from page 3)

KZ2I first place non-club and club in SJRA QSO party. Scheduled for weekend between June VHF and Field Day.

Virtual Shack Tours Presented by: N3RG; KC2PHM; N2AK; and W2FDJ.

Adjourned at 2130

Submitted by Roy Herman, WB2EOD, Acting in the absence of N2HQL, 22 March 2017

Minutes of Board of Directors Meeting, April 5, 2017

The meeting was called to order at 1935 by Ken, K2WB. The meeting was held at the Gibson House.

The minutes of the March meeting were approved as printed in Hamonics, motion by N2HQL/N2ATB.

Ray, N3RG made the treasurer's report, we are up to 112 paid members.

Membership applications, reported by Ted, KD2ARD: KB3FW, HARVEY D HNA-TIUK

Accepted on motion by N2ATB/W2JAZ.

Corresponding Secretary report by AC2FO: Sent press release regarding QSO party, invited San Francisco Radio Club, and Superstition Mountain Radio Club (Arizona). Special permission to release to Section Mgr.

Repeaters- working, planning on moving node to new location.

ARRL DX contest first place plaque presented.

Trustee- no complaints.

Club stuff- One order received, still have patches and 100th anniv. magnets.

Health & Welfare, by Roy WB2EOD-

May Birthdays submitted, Condolence card to W2EKB (Fred Holler) daughter.

Programs by W2JAZ: April- AC2FO demonstrating Magnetic Loop Antennas; May- Storm Robotics, and Elections: June- Field Day Wrap. Rick is looking for help to arrange more programs.

Web Team- Putting Paypal button on for renewals, Ken Requested quick addition of QSO party info up.

Field Day- by Ken, K2WB- need to get invites out to our "Big Gun" operators.

100th Anniversary- Ken reports the last coffee cup has been shipped.

Old business- Ray, N3RG reported the following nominations for office:

SJRA 2017 Election

President:

YES - Ken Botterbrodt - K2WB
(609) 304-7699

Vice President:

YES - Jon Mac Millan - W2MC
(609) 670-5023

Treasurer:

NO - Ray Golley - N3RG
(609) 828-1330

Recording Secretary:

YES - Lou Priestley - N2HQL
(856)

Corresponding Secretary:

YES - Dennis Cioffi - AC2FO

Directors:

NO - Roy Herman - WB2EOD will accept Treasurer's Pos. with Ray's help
856-751-8392

YES - Ira Weinstein - W2IRA
609-471-4660

*NO - Rich Vonlintig - KV2R * will yield to a replacement

(Continued on page 8)

(Meeting Minutes from page 7)

(609) 828-4904

YES - Rick Lawn - W2JAZ

(856) 904-6488

YES - Tony Canuso - N2ATB

(856) 296-4806

YES - Ted Dean - KD2ARD

(609) 929-3286

YES - Al Witner - N3AVT

(856) 297-4602

NOMINATED from floor:

Burton Sampley, NJ2IT (by Al Witner)

John Doran, W2FDJ (by Rick Lawn)

Matt Grochans, N2IDW (by Roy Herman)

Art Arnold, N2CPR (by Rick Lawn)

1st Reading at meeting March 22, 2017 - done!

2nd Reading at meeting April 26, 2017

ELECTION at meeting May 24, 2017

New business- Ken, K2WB suggested we restart "Kids Net" on fusion so we can draw from a wide audience.

KC2TN was presented with a certificate for leading in the ARRL June VHF contest.

Submitted by Lou, N2HQL

Source For Older Components

Recently I hired the Spartan Air Duct Cleaning service to clean out heating and dryer vent ducts. The young fellow who showed up introduced himself as Dom and we immediately struck up a conversation about radios, repair, parts availability especially for older radios, and related subjects. As a result I suspect he spent more time on my ducts than most jobs! He obviously had seen my antennas and my little shop and shack. He explained that his father owned MidState Radio Supply in Berlin, NJ since the 50s and that he helped him once he was old enough. When they folded up the business Dom apparently kept all the inventory. He rattled off a list of components from transistors to tubes, caps and resistors and even crystals that he has squirreled away.

Dom apparently runs a little business out of his house in Somerdale, NJ. He clearly knew a lot about radios and told me he was surprised that he never pursued getting his amateur radio license. Of course I tried to recruit him and he seemed interested. I told him all about our monthly free testing sessions and so on. Who knows if he will follow through. But for those of you in need of the occasional older part to bring life back to a sick radio you should call Dom at 856-857-4675. He might just make you an offer you can't refuse. Tell him Rick sent you...hi hi! 73 Rick, W2JAZ



WORLDWIDE DISTRIBUTION



Ken Hartley
Manager
N2OHD

1509 N. Dupont Hwy. #7
New Castle, DE 19720
(302) 322-7092 • 800-644-4476
(302) 322-8808 Fax
newcastle@hamradio.com

ANAHEIM, CA • ATLANTA, GA • BURBANK, CA • DENVER, CO
NEW CASTLE, DE • OAKLAND, CA • PHOENIX, AZ • PLANO, TX • PORTLAND, OR
SALEM, NH • SAN DIEGO, CA • SUNNYVALE, CA • WOODBRIDGE, VA

(Interesting Gadgets I wish I had Time For from page 5)
 play that not only identifies the type of component that you've connected to it, but also draws the schematic symbol of the part. You can see a video of this tester in action at <https://www.youtube.com/watch?v=07FH6tjzwWg>.

Make your Raspberry Pi into a desktop PC

Newark/element 14 will soon start selling a kit of part that will make it easier to turn your Raspberry Pi into a desktop PC (https://www.element14.com/community/docs/DOC-83477?CMP=emai1-SEPO210317e14PI&et_cid=28941683&et_rid=1231362216&cmp=). The kit includes:

- ◆ Intelligent and Safe Power Controller
- ◆ Interface to connect mSATA SSD (upto 1TB)
- ◆ Real Time Clock to keep track of time
- ◆ Heat Sink
- ◆ Enclosure

They don't list the price just yet, but this might be what I need to actually make use of the Raspberry Pi 3 I bought several months ago.

If you have one of these gadgets, or buy one in the future, please let me know how you like it. I'll put your review up on my blog, so that everyone can benefit from your experience.



When he's not drooling over electronic gadgets, Dan blogs about amateur radio at KB6NU.Com, writes the "No Nonsense" amateur radio study guides, and teaches ham classes. You can contact him by e-mailing cwgeek@kb6nu.com.

President's Message

Ken – K2WB

March Madness is now over! Spring Weather brings flowers, rain and thunderstorms. Remember to keep all of your antennas and gear lightening safe.

Field Day will be here before we know it. The club needs your help to succeed. Contact a band captain or myself if you want to help and be part of the success of the SJRA!!

Last year we ran a QSO party for 10 days to celebrate our 100th anniversary. This year we are doing something along the same lines, but for only 48 hours and other clubs are allowed to participate as bonus stations. So far 3 clubs have signed up and I hope there will be more to come.

Members can operate as K2AA from your own station, all that is needed to sign up for a particular time period, band and mode. That is it. Send your log to me so that we can make certain all of the stations contacted can claim the 100 point bonus. The challenge will be to make K2AA/101 available to all who wish to get the 100 points. Contact me ASAP to get into the K2AA schedule.

This is our chance to show the world what the SJRA is made of please help!

If you want to come to our meetings and are unable to, please let me know so we can put the word out.



**Spring Jacket is \$51 (S,M,L,XL),
plus \$2 per each size larger**
see Joe, KC2TN



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

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

If you have not paid your 2017
dues, this may be the last issue of Har-
monics you receive. Please send your
dues check payable to "SJRA" to:

Ray Golley, Treasurer
552 Newport Road
Millville, New Jersey 08332

(Radio Sport aka Contests from page 4)

CQ WW WPX Contest CW

5/26-27, Friday, 8PM EDT to Sunday
8PM.

ARRL June VHF Contest

6/10-11, Saturday, 2PM EDT to Sun-
day 11PM.

SJRA QSO PARTY

6/16-18, Friday, 8PM EDT to Sun
8PM.

ARRL Field Day

6/24-25, Saturday, 2PM EDT to Sun-
day 5PM.

Items for Sale

50 Foot Free Standing Tower (not heavy
duty). Tower is on the ground in two
pieces that bolt together at the 30 foot
level. \$100.

*All proceeds from the sale of this
item will be donated to SJRA.*

Contact Ted, W2TAG

Tabernacle, NJ

ted.w2tag at gmail dot com

(609) 268-8460

For Sale

Ameritron AL-811H Amplifier, (up
to 900 Watts) this unit is like new with
very little use. \$375.00, *New Lower
Price! Pick-up Only!*

Contact: Ted, W2TAG:

ted.w2tag at gmail dot com

Home Phone: 609-268-8460

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.

April Meeting:

Is the **Fourth** Wednesday, April 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 April:

The April meeting presentation will feature Dennis, AC2FO, who will demonstrate how to easily construct magnetic loop antennas of all sizes and shapes.

SJRA Member May Birthdays

Katherine Edwards, KM2KME; George Fodor, N2GMF; John Fogleboch, WY2J; Richard Lawn, W2JAZ; and Robert Petty, KC2HEN.

It is with deep regret, we note the passing of Fred Holler, W2EKB, (SK), past president and longtime member of the South Jersey Radio Association.

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

May Meeting:

Is the **Fourth** Wednesday, May 24, 2017

First Class Mail

South Jersey Radio Association
PO Box 1026
Haddonfield, NJ 08033

