



# HARMONICS

1916

South Jersey Radio Association

2016



## Radio Sport aka Contests

John, W2FDJ, johnd152 at verizon dot net

### Member activities

*(Send your thoughts and ideas to me at johnd152 at verizon dot net with anything about your contest activities, or those you observe. All types of info are welcome; preparations, bands used, equipment used, contacts made, old friends you came across, equipment problems and quick fixes of course. Pictures will be a plus.*

*I'll start with my activities as an example.)*



John, W2FDJ, On for the CQ WW DX (phone) at the end of October. 220 contacts in 49 countries, which was about two thirds of my 2015 results. I hardly worked any Europeans and nothing in Asia. I guess sun-spots can be blamed for this result.

I use an ICOM IC-746Pro to a TH3-JR beam for 20-15-10 and dipoles for 80 and 40.

Recent posted results - see arrl.org or CQ

### 2016 ARRL June VHF Contest, K2AA/100

Joe, KC2TN, 6375

Roy, WB2EOD, 3267

Dara, KC2THQ, 3104

John W2FDJ, 312

### 2016 ARRL International DX (Phone)

K2AA, ops not known, 249,768

K2WJL, Joe, 188,505

W2FDJ, John, 137,655

2016 ARRL January VHF

K2AA/100, KV2R, Rich op, 8288

WB2EOD, Roy, 5712

KC2THQ, Dara, 5520

N2SCJ, Bob, 924

W2FDJ, John, 693

KD2JPW, Mark, 384

KE2D, Bob, 20

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

ARRL Sweepstakes (Phone)

11/19-21, Sat 4PM EST (24 of 30 hrs)

CQ WW DX Contest (CW)

11/26-27, Fri 8 PM EST (48 hrs)

ARRL 10-Meter Contest (CW/Phone)

12/10-11, Fri 7PM EST (36 of 48 hrs)

ARRL RTTY Roundup (RTTY and

Digital) 12/7-8, Sat 1PM EST to

Sun 7PM



## 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](mailto:sjra@sjra.org) SJRA's web page: [www.sjra.org](http://www.sjra.org)  
 SJRA VE Team: [ve@sjra.org](mailto: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

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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 145.290 @ 8PM, Fusion

### Harmonics Deadline

Articles submitted for the next Harmonics will be accepted until Monday, December 12, 2016. Email: [ted.w2tag@gmail.com](mailto: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

### Minutes of General Meeting Oct 26, 2016

The meeting, held as usual at the Gibson House in Marlton, NJ, opened at 1934, chaired by Jon, W2MC. The American Flag was saluted. Jon had the members introduce around, while answering the question- are you working the Sweepstakes?

The minutes were approved as printed, motion by WA2HJG/N2AK.

The treasurer's report was read by Jon, W2MC 114 paid up members, we still have money!

Ted, KD2ARD had no new membership applications to announce. He has supplies to operate with, but no applicants.

Mark, our historian reports he has had some training to enable him to update the timeline.

Roy, WB2EOD reports no H&W items.

Programs: by W2JAZ Tonite- N2AK with a demo of EZ NEC: November- Rick, W2JAZ will do a program on operating satellites.: December 14 -7 PM HOLIDAY PARTY

VE team, by Al N3AVT- 189 passed a test or upgraded so far.

Nets-2M fusion net scheduled for 27 Oct 2016

DX by N2VW 3W- Vietnam, will be operating at 100 W from Vietnam- pending approval of license which had not been delivered prior to his departure. 5B,

cypress- will be on the air for the CQWW SSB weekend. A group of Cypriots will be operating as C\$A at that time. 5W Samoa- 10/31 thru 11/9 as 5w7x and 5w0st . 6W Senegal- will be 6W1RY during the contest from DAKAR. C3, Andorra look for C37NL during the contest. EA9, Ceute and Melilla look for Jorge, EA9LZ during the contest.

Contests by John, W2FDJ- 10-29-30 CQWDX SSB; 11/5-7 ARRL Sweeps CW; 11/19-21 ARRL Sweeps SSB; 11/26-27 CQWDX CW . Club stuff- Joe KC2TN- one outstanding order- Club stuff makes good Christmas items. Repeaters working, looking for new location for the node.

Meeting recessed at 2007.

### Board of Directors meeting Nov 2, 2016

The meeting held at the Gibson House was opened at 1935 by Jon, W2MC. Minutes of the October meeting were approved as printed, motion WB2EOD/N2ATB.

Historian, Mark is working on the timeline, and has received the log from our first Fusion net.

Programs- see above.

Awards by W2JAZ- no nominations received so far.

Corresponding Secretary- Still working on thank-you's from 100th banquet. He needs addresses and approvals.

*(Continued on page 10)*

## Celebrating Your Club's Elmers Might Encourage Others

Dan, KB6NU, cwgeek at kb6nu dot com



Sam, W5KF, recently sent me a link to the Elmers' page on the Norman, OK South Canadian Amateur Radio Society (SCARS) website. Not only is it a listing of the club members who have stepped forward to Elmer new members, but also provides ways to honor current and past Elmers. This is from the SCARS newsletter:

*"Elmer List on the W5NOR.org website*

*"This week we talk about a brand new feature on the W5NOR web site. In the amateur radio community, an experienced amateur radio operator who mentors a new or prospective ham is commonly called an "Elmer". In our hobby, that seems to be a great way for knowledge to be transferred.*

*"Yes, we all have taken an FCC test to receive our license, however that's only the starting point. Remember that person that helped you set up your first radio, or gave you the courage to press the PTT button, or answered endless questions about a radio, or an antenna? That's the kind of thing we're talking about.*

*"Thanks to a great suggestion from Gary Skaggs WB5ULK [not sure it was my idea. - Editor], we've created the SCARS Elmer Page, located at <http://w5nor.org/elmers>, for us to celebrate Elmers; past, present, and future. We provide a place for*

*Elmers to list their specialty, and contact information, which allows new hams to find someone they can ask questions of.*

*"Since this is a new section of the web site, this list is rather short. If you're willing to help others on a given topic, send a message to [n5hzzr@arrl.net](mailto:n5hzzr@arrl.net) and you will be added to the list. Right now we need lots of different categories, like antennas, radio setup, HT programming, contesting, satellite operation, high power operation, test gear, building your own gear, repairing radios, APRS, D-Star, DMR, CW, logging, etc. oh well, you get the idea.*

*"You don't need a PhD to be listed here. You just need a willingness to help others in a given area. It's OK to be a new ham, and be listed here. You may have just struggled through your first space contact, but you'll have infinitely more knowledge than the person who's been a ham for 40 years, and has never tried that portion of the hobby.*

*"Also, there is a link to the "ARRL Elmer Award" page of the American Radio Relay League's web site. Here, you can enter your favorite Elmer's name and callsign. The ARRL will print a nice certificate, and mail it to the address you enter. Yes, for FREE! This certificate can either be mailed to your favorite Elmer, or you can mail it to yourself so you can present it to them personally. Feel free to order an Elmer certificate, and present it to your Elmer at an upcoming SCARS meeting. Talk with one of the officers before the meeting to get your place on the agenda. What a great way to recognize these people for their extra efforts.*

*"Finally, we've got a place to list YOUR favorite Elmer in our SCARS Elmer Hall-of-Fame. This is the place to memorialize your Elmer, whether they are SCARS members, Silent Keys, or not. I've already*

*(Continued on page 5)*

### SJRA Award Nominations Nearing End

There was an error in the online calendar for this month. To clarify, our next meeting is this Wednesday, November 16th.

This is the last time you can submit your nominations for our major awards - Amateur of the Year and Lifetime Achievement. All it takes is a name and a few sentences stating why your candidate is deserving of the recognition.

See you soon.....

Rick, W2JAZ  
SJRA Presentations and Awards Chairman  
rjlawn at gmail dot com



*(Celebrating Elmers from page 4)*

*listed a few Elmers on the list from my own travels through the hobby. We'd love to list the people that help us all succeed.*

*"So, please help make this page useful, visit the SCARS Elmer page at: <http://w5nor.org/elmers> and be listed as an Elmer, and list your favorite Elmers."*

I think this is a wonderful idea, and I hope that you will consider doing something similar in your club. A little recognition could go a long way, and we need all the Elmers we can muster. And, if you're already doing this, please send me a link. I'll add that link to my website, KB6NU.Com.



*When he's not Elmering new hams, you'll find Dan building kits and working CW on the HF bands. He is the author of the "No Nonsense" amateur radio license study guides, and blogs about amateur radio at KB6NU.Com. You can contact him by e-mailing [cwgeek@kb6nu.com](mailto:cwgeek@kb6nu.com).*

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## SJRA 2 M EXPERIMENTAL FUSION NET

*Net Control: John Fogleboch WY2J Date:  
2016/10/29 (UTC) Start Time 00:00 (UTC):  
Finish Time 01:01 (UTC):*

Is any other station currently using this repeater? (Pause) **Good Evening this is John WY2J your host and control operator for tonight's SJRA Experimental Fusion Net. This is the 1<sup>st</sup> of 3 nets that are being conducted on the 2<sup>nd</sup> or 4<sup>th</sup> Thursday nights at 8:00 PM Local Time (00:00UTC) in YSF DN mode to determine interest in a digital conversational net.** The net will operate similar to the SJRA FM net on the K2AA repeater each Monday night except that the focus of the conversation will be steered towards learning to use the mode and helping other stations on the net with equipment setup problems and linking to Wires X. This is a learning exercise for all stations and more experienced stations are strongly encouraged to participate for the next 3 months as Elmers to the rest. **The 2<sup>nd</sup> and 3<sup>rd</sup> DN nets will be on Thursdays the 10<sup>th</sup> of November and 8<sup>th</sup> of December 2016.** If interest is strong the net will continue starting in January 2017 on the 2<sup>nd</sup> and 4<sup>th</sup> Thursdays of each month hopefully with one or more other participating NJ clubs linked to K2AA via Wires X.

I will proceed with call ins using the SJRA club call sign K2AA. Please note the distance of net control (displayed as WY2J) on your display as we will initiate call ins based on distance from net control. 1. Stations greater than 15 miles from WY2J please call in now giving your call sign and name. 2. Stations 7 to 15 miles call in now. 3. Stations 5 to 7 miles call now. 4. Stations 2 to 5 miles call now. 5. Stations less than 2 miles call now. 6. Any stations not reading a dis-

tance or linked by Wires X call now.

Closing Note from Net Control WY2J: The 1<sup>st</sup> YSF DN Mode net ever operated on the SJRA K2AA repeater occurred on Thursday 28 November 2016 at 8:00 PM local time, was a huge success both in terms of participation and on the air solving of operator set up problems. We had 17 local stations including net control connected to the K2AA Fusion repeater plus a Jacksonville, FLA repeater connect thru Wires X to our local node and K2AA. One station in Orange Park, FLA called into our net via the Jacksonville machine, 760 miles from K2AA net control. The participation on this net was approximately double that of the weekly K2AA 2 meter FM net and triple that of the 10 meter SSB net. A copy of this log is being sent to all SJRA members via the membership reflector. Mark Walters KD2JPW the SJRA historian is asked to file a copy in the SJRA historical archive.

John WY2J

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

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

WORLDWIDE DISTRIBUTION



**Ken Hartley**  
Manager  
N2OHD

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No.	CALL SIGN	M/P/Rp Rptr	NAME	RANGE mi	DIREC- TION	COMMENTS
1	KC2TN	P	Joe	9.7		Atco portable kc2tn@comcast.net
2	N2AK		Mario	No Data		FT100 in basement can't lock on GPS
3	KD2JPW		Mark	10		Wants log for SJRA files.
4	W2IRA	M	Ira	3.4		Microphone problem on base station rig.
5	N2SCJ		Bob	6.2		Using FT991 with fixed location data.
6	N2PKR		Mark	No Data		Haddonfield. FT991 w/o GPS data load.
7	N2IDW		Matt	3.6	W	FTM-400
8	<b>KF4EOK</b>	<b>Rptr</b>	-	<b>760</b>		<b>Jacksonville, FLA repeater connected.</b>
9	WB2WEK		Gene	4.9	WNW	Haddonfield
10	WB2EOD		Roy	0.3	ESE	FT991
11	KC2THQ		Dara	0.3	ESE	XYL of WB2EOD
12	K2QA	M	John	8.7	NE	FT2D HT with Mag Mt Antenna
13	N2CPR		Art	No Data		GPS won't lock on.
14	N2CKW		Joe	19		
15	<b>WH2AAT</b>		<b>Gaylord</b>	<b>No Data</b>		<b>Orange Park, FLA via Wires X</b>
16	KD2JPV		Holden	No Data		Good signal for a change.
17	N2ATB		Tony	2.2		
18	KD2EPM	M	Dom	1.5		Called in immediately after net close.

## All SJRA Members

South Jersey Radio Association cordially invites all members and families to attend the SJRA Christmas Party on December 14 at 7 pm at the Gibson House. The regular business meeting and awards ceremony will follow.

The menu for the dinner (provided this year by Villa Catering) includes the following:

- ◆ Baked Ham
- ◆ Cole Slaw
- ◆ Chicken Marsala
- ◆ Pasta
- ◆ Salad
- ◆ Tossed Salad and Rolls
- ◆ Parsley Potatoes
- ◆ Glazed Carrots
- ◆ Stuffed Shells

In addition SJRA will provide an SJRA cake, coffee, and soft drinks.

While the \$15.00 price per person will be collected at the door, interested persons must sign up at the November meeting or by emailing KV2R Rich (kv2rrich@gmail.com). Unfortunately we generally will not be able to accommodate for the dinner persons who do not sign up in advance. The deadline for signups is December 4. We are looking forward to a wonderful dinner with good conversation, followed by the traditional ceremony.

Rich KV2R

## For Sale



Alinco DR-235 220 MHz FM

Rig is in box with everything it came with in almost new condition. It works, but the microphone can be touchy, so I am only asking \$100

.Contact Jon W2MC

w2mc *at* comcast *dot* net

(856) 768-7562

## Test Session Report for: November 9, 2016

The SJRA congratulates the following on his recent achievement:

Holden J. Correia-Fisher, KD2JPV

401 Collings Ave.

Collingswood, NJ 08108

Earned his General

	Tech	General	Extra	Total
To Date	112	52	26	189



## Monthly Puzzle

**Don – WA2DUE, wa2due at arrl dot net**

Last month we posed the following puzzles:

A community has an ordinance that spells out the requirements for a tower, pole or other similar object; and one of the stipulations is that it must be located such that if it fell it would remain on the owners property. The townships engineer is given the assignment to investigate a newly installed radio tower to assure that it met the requirements of the ordinance. Upon arrival he notices that the tower is in the middle of a fenced-in square with all the required warning signs. He measures the distance from the middle of the base of the tower to the closest point of the fence and finds it to be 200 feet. At a point 5 feet from that place on the fence and in line with the tower he places a theodolite and measures the angle to the top of the tower and finds it to be exactly 45 degrees. If the tower were to fall in any direction would it land within the fenced-in area?

Answer: This is probably the easiest puzzle ever presented in this column. Obviously, the triangle is an isocoles and the tower is 195 feet tall and would fall within the confines of the property.

If a special kind of wire 110 feet long has a resistance of 7.5 Ohms, what length of this wire will have a resistance of 12 Ohms?

Answer: Setting up the ratio of  $7.5/110 = 12/\text{length}$  will resolve to 176 feet.

For November let us consider the following:

*(Continued on page 10)*

## President's Message

**Ken – K2WB**

Our Holiday Party (December 21st) the meeting and meal will be held at the Gibson house. After dinner there will be presentation of the club awards. Contact Rich KV2R and let him know if you plan on attending. Check out the web site for more detailed information.

Please contact Rich W2JAZ regarding nominations for Awards, the sooner the better. When doing so give a reason for your nomination and for which award that you recommend. Award information can be found on the SJRA web page at [www.sjra.org](http://www.sjra.org).

By the time Harmonics comes out the November Sweepstakes CW portion of the contest will be completed. So far I know that Bob KE2D, John W2FDJ and Pat KD2P participated let John W2FJD and myself know if you entered the contest. There is still a chance for you to sign up to operate the Single Side Band part of the contest with the K2AA station, contact me if you are interested in getting in the K2AA operating schedule. If you operated either or both contests send a copy of your summary sheet to John W2FDJ. Don't forget to list the South Jersey Radio Assn as your affiliated club.

Usually the results of Field Day are out by now. As of the writing of my column the ARRL has not published the results keep your fingers crossed. Field Day 2017 planning as already started. Think of what you can do to help.

*(Continued on page 10)*

*(Meeting Minutes from page 3)*

VE- 189 tests passed so far, AI has renewal forms from N2AKC to process with the next batch.

Nets- 18 people showed up for the inaugural fusion net.

K2AA will be on the air for the ARRL November sweeps,

A request for Sugar free treats at the meeting was made. Please assure those that need sugar free have them available- don't take the labeled treats unless you need to !

100th Anniversary- The final book is ready, all necessary corrections have been made.

FD results still not available.

The board selected the menu for the Holiday party- see Rich, KV2R or a special note in harmonics for details- sign-ups are needed to give the caterer a head count. A motion to set the rate at \$15.00 was made by W2JAZ /WB2EOD, with the club treasury to pick up the rest.

No new business.

Motion to Adjourn by WB2EOD/ N2ATB.

By Lou, N2HQL, Rec. Sec.

*(President's Message from page 9)*

There is still time to let John, W2FDJ, know if you participated in other contest, let him know.

Don't forget that the meeting is on the 3<sup>rd</sup> Wednesday (November 23<sup>rd</sup>) this month.



*(Monthly Puzzle from page 9)*

A circle and a straight line lie in the same plane. The equation of the line is  $(x + y = 4)$  and the equation of the circle is  $(x^2 + y^2 = 58)$ . At what points does the line intercept the circle?

A pulse from a radar is reflected from a target. The measured time taken for the round trip was 536 milliseconds. What is the approximate distance to the target?

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

## Grin and Bear It

The police was called to a Day Care Center when a three year old was resisting a rest.

Don Beaulieu, WA2DUE

## November Presentation

Rick. W2JAZ, will discuss amateur satellite operation and present the following topics at the upcoming November meeting:

- ◆ How I started
- ◆ Types of Satellites
- ◆ Modes of Operation
- ◆ Operational Satellites
- ◆ How do you find the Satellites?
- ◆ What equipment will you need?
- ◆ What equipment do "I" use?
- ◆ Operating events
- ◆ AMSAT

## 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.

### **November Meeting:**

**Is the **Third** Wednesday, November 16, 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 November:**

Rick. W2JAZ, will discuss amateur satellite operation.

### **SJRA Member November Birthdays**

Edward Fletcher, N2ZPR; Ray Golley, N3RG; KC2THQ Dara Herman; David Soll, KC2YJI.

### **The Health And Welfare Committee Wants To Hear from You.**

Beyond birthdays, illnesses and deaths we want to publish some good news, (births, marriages, license upgrades, and such). Please send the information to: WB2EOD *at* ARRL *dot* net.

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

### **December Meeting:**

**Is the **Second** Wednesday, December 14, 2016**

**First Class Mail**

South Jersey Radio Association  
PO Box 1026  
Haddonfield, NJ 08033

