



Mid-Atlantic Amateur Radio Club

[www.marc-radio.org](http://www.marc-radio.org)

P.O. BOX 557  
EAGLEVILLE, PA  
19408

# REMARCS

**Next Meeting: May 19, 2015 at 7:30 PM**

**May/June 2015**

## Letter from the MARC President

Spring has finally arrived and lots of things are happening at MARC. Our membership is currently at 85 and we are on our way to break last year's record of 104 members. It's great to be part of a growing and vibrant ham radio club. As many of you already know, our Vice President, Steve Ikler (KS3K) and his wife Gail are moving to become permanent residents at their home in Florida and Steve has resigned, effective April 30. The MARC Board asked Jeremy Carlo (N2ZLQ) to assume Steve's position on the Board and take over his duties as Vice President and Jeremy has accepted. Steve has been a big help to me over the years and he has been a major contributor to the club and many of our events – he will be missed but we wish him and Gail all the best in Florida. Many thanks to Jeremy for stepping up and I know he will make a valuable contribution to the Board and our club – I look forward to working with him.

We continue to look for a Net Control Manager. While several members have been filling in to run the nets on Wednesday, we would all benefit from a permanent manager. Please let me know if you have interest in filling this position. As you all know, we have attempted, for some time, to replace the antenna on the 147.06 repeater. This requires the services of a professional tower climber and permission from the tower owner. The Board had previously authorized the expenditure for a new antenna and it looks like we are getting closer to actually replacing the antenna.

Preparations for Field Day are underway. Thanks to Jim Smith (K3RTU) for being captain again this year. We have just completed a review of the antennas and radios we will be using for the event. In addition, we plan to host a Boy Scout Radio Merit Badge session as we have done the past two years when we have had nearly 3 dozen scouts earn the merit badge. While we typically have plenty of folks come out for set up and take down we never seem to have enough operators. Please come out and help in any way you can but please let Jim know when you can operate.

I hope to see you all at one of our upcoming meetings, public service events or other club activities.

**73/ Steve Werner - KD3WK**  
**MARC President**

## VOX

**PLEASE NOTE:** Due to Field Day, there will be no monthly MARC meeting in June.

Rich Russo, KB3VZL, had another 'Hint' published in the 'Hints and Kinks' section of the February 2015 issue of QST. This was on making a digital field strength meter from an inexpensive digital multimeter, such as the cheap (or free) meter from Harbor Freight. There is also a Ham Nation podcast from TWIT (#185: Hello New Hams) with a DIY segment where they constructed this addition to the meter based on Rich's hint in QST. In fact, the one line description of the episode on the Ham Nation website says "Randy (K7AGE) builds a field strength meter from a digital multimeter." The podcast segment gave full credit to Rich for his hint.

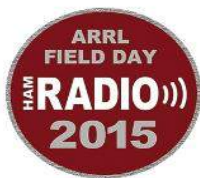
MARC is still seeking a Net Manager for our 2 meter net on Wed. nights at 8:30! If you can help, contact Steve Werner, KD3WK: [kd3wk@marc-radio.org](mailto:kd3wk@marc-radio.org).

If you are going to a hamfest before MARC's hamfest on July 11th and you can take some MARC hamfest flyers to distribute, contact Mike, KF3CD at [kf3cd@arrl.net](mailto:kf3cd@arrl.net).

Welcome to new MARC member John Gurski, Jr., K3JAG!

## Inside this issue of REMARCS

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## FIELD DAY IS JUNE 27th & 28<sup>th</sup>!

Field Day is an annual amateur radio exercise, encouraging emergency communications preparedness among amateur radio operators. The objective is to work as many stations as possible on any and all amateur bands (excluding the 60, 30, 17, and 12-meter bands) and to learn to operate in less than optimal conditions. But Field Day is much more than that, it's also a time to relax and make new friends and renew old friendships!

Since the first ARRL Field Day in 1933, radio amateurs throughout North America have practiced the rapid deployment of radio communications equipment in environments ranging from operations under tents in remote areas to operations inside Emergency Operations Centers (EOCs). Operations using emergency and alternative power sources are highly encouraged, since electricity and other public infrastructures are often among the first to fail during a natural disaster or severe weather.

This year, Field Day is Saturday, June 27 and Sunday, June 28. MARC will operate during Field Day at the same location as last year, at The Providence Fire Company, located at Ridge Pike and Mount Kirk Avenue in Eagleville, PA.

All MARC members and their families are invited to join us for the event. During the afternoon on Saturday, MARC will be providing hoagies, snacks and sodas and there will be pizza at dinner time. On Sunday morning there will be donuts and coffee.

We need club members to show up on Saturday morning to set up the antennas and on Sunday to help take the antennas down by 2:00 PM. We also need people to operate and log contacts during the night hours. If we don't get members to sign up for the night operation, we will have to suspend operations until Sunday morning.

We need operators to commit! If you have not already signed up to help, please email Jim Smith, K3RTU at: [k3rtu@msn.com](mailto:k3rtu@msn.com).

## MARC Info

[wb3joe@marc-radio.org](mailto:wb3joe@marc-radio.org)  
<http://www.marc-radio.org>

### MEMBERSHIP MEETINGS:

3rd Tuesdays of the month, 7:30 PM (Doors open at 7:00 PM) Community Meeting Room (in the front) of the Tredyffrin Township Municipal Building, 1100 DuPortail Road, Berwyn, PA 19312-1079.

Guests Welcome, Smoke Free, Handicapped-accessible.

### BOARD MEETINGS:

2nd Tuesdays of even months, 7:00 PM  
Paoli Hospital, Willistown Meeting Room, Paoli, PA.  
Members may attend as observers.

### WB3JOE REPEATERS:

(CTCSS or PL = 131.8 hz)

145.130 - / 147.060 + / 147.360 + / 224.420 - / 224.5 -  
/ 445.675 - / 444.050 -

The 145.13 and 147.06 2-meter repeaters are linked. The 147.36 MHz, the 224.50 MHz and the 444.050 MHz repeaters are linked.

### WEBMASTER:

Dennis Silage K3DS  
[k3ds@marc-radio.org](mailto:k3ds@marc-radio.org)  
610-353-4829

### 2-METER NETS:

Club Net, Wednesdays, 8:30 PM

These nets occur on linked 145.13 - / 147.06 + Repeater

### NET MANAGER: Open

### NET CONTROL OPS:

Alan K3WWT, Bob N3JIZ, Steve N1HDP, Miguel KC2HMG, Yak N3MQM, Rob KB3WIR, Brenden W3VD, Mike WB2UQV and Bob WB3T

### DUES:

Payable at the March Meeting  
\$15 Full (licensed Amateurs)  
\$5 Associate (unlicensed persons)  
Family rate \$5/ham - after first member pays full dues

### NEWSLETTER:

The REMARCS editor is Mike, KF3CD. Do you have something to contribute to REMARCS? Please let Mike know by sending an e-mail to [kf3cd@arrl.net](mailto:kf3cd@arrl.net).

## MARC PROVIDES COMMUNICATION SERVICES AT PENN WYNNE RUN

On Saturday, April 11th, MARC members provided communication assistance for the Penn Wynne 5K and 1 Mile Family Fun Run. This year's event was held to raise money for both the Penn Wynne Library and the Penn Wynne Elementary School. There was a new race route and a new start/finish line. It began and ended at the Elementary school rather than the library. Participating for MARC were Steve KD3WK, Steve KS3K, Jim N3DAS, Brian AA3BK and Floyd KA3OXA.

MARC was instrumental in providing assistance to a runner in distress. About half-way through the 5K, a young female runner approached Brian, AA3BK and asked for assistance.

She was exhausted and felt nauseous and needed a ride back to the finish line. Brian relayed the information to net control (Steve KD3WK) who contacted race organizers who sent the elementary school principal to pick her up. After proper identification, Brian allowed the girl to go with the principal. Thank you to everyone that helped to make this event a success!

## MARC PROVIDES COMMUNICATION SERVICES AT EAST GOSHEN WALK MS EVENT



Thank you to the MARC members above who provided communication services during The Walk MS event at East Goshen Township Park on Sunday, May 3rd: Steve Werner KD3WK, John Hucke K3JH, Bob Palin N3JIZ, Frank Burstein K3FSB, Denise Burstein KB3ANO, Rich Russo KB3VZL, Brian Kelly AA3BK, Jim Smith K3RTU, Jim Foster N3DAS and Doug Wilkens NE3U.



## VOLUNTEERS NEEDED FOR RADNOR MEMORIAL DAY PARADE

If you can help MARC to provide communication services at The Radnor Memorial Day Parade on Monday, May 25<sup>th</sup> and have not already signed up to do so, contact Bob Palin, N3JIZ at 610-420-1535.

## MARC Board of Directors 2014-2015

### PRESIDENT

Steven Werner KD3WK

[kd3wk@marc-radio.org](mailto:kd3wk@marc-radio.org) 610-574-6836

### VICE PRESIDENT

Jeremy DeCarlo N2ZLQ

[n2zlg@marc-radio.org](mailto:n2zlg@marc-radio.org) 917-612-2163

### SECRETARY

Sal Marandola NC3U

[nc3u@marc-radio.org](mailto:nc3u@marc-radio.org) 610-306-2817

### TREASURER

Lou Ruh WX3I

[wx3i@marc-radio.org](mailto:wx3i@marc-radio.org) 610-630-9146

### PUBLIC SERVICE

Bob Palin N3JIZ

[n3jiz@marc-radio.org](mailto:n3jiz@marc-radio.org) 610-687-4587

### TECHNICAL SERVICE

Dennis Silage K3DS

[k3ds@marc-radio.org](mailto:k3ds@marc-radio.org) 610-353-4829

### MEMBERSHIP SERVICES CHAIRMAN

Chris Ruhl N3GBJ

[n3gbj@marc-radio.org](mailto:n3gbj@marc-radio.org) 484-494-7572

### PUBLIC RELATIONS CHAIRMAN

Jim Biddle W3DCL

[w3dcl@marc-radio.org](mailto:w3dcl@marc-radio.org) 610-353-0880

### PROGRAM CHAIRMAN

Richard Russo KB3VZL

[kb3vzl@marc-radio.org](mailto:kb3vzl@marc-radio.org) 610-539-2999

### MEMBERS-AT-LARGE

To 9/30/2016 -

Doug Wilkens NE3U

[ne3u@marc-radio.org](mailto:ne3u@marc-radio.org) 610-692-6819

To 9/30/2015 -

Jim Smith K3RTU

[k3rtu@marc-radio.org](mailto:k3rtu@marc-radio.org) 610-494-5897

### CALLSIGN TRUSTEES

- WB3JOE

Dennis Silage K3DS

[k3ds@marc-radio.org](mailto:k3ds@marc-radio.org) 610-353-4829

- W3NWA

Dieter Hauer K3DK

[k3dk@marc-radio.org](mailto:k3dk@marc-radio.org) 610-489-1920

## Becoming a Ham, Twice- By Allan Glaser, AB3FN

As a youngster, I was always interested in electricity, and my friends and I would string wires between our houses and hook up batteries and buzzers and send messages while referring to a Morse code chart. I was twelve years old in 1958 when Class D citizens band was established. My parents bought me a Heathkit CB-1 - four tubes, a regen receiver, and crystal-controlled 5 watt transmitter. That was my first significant kit building venture, but it hooked me on both building things and two-way radio communications.

In my early teens I looked toward ham radio, and immediately encountered two challenges. One was dealing with reactance and impedance. Strange things, these AC circuits. I understood that current would surge into a capacitor, and that an inductor would tend to block AC, but that was about it. After a lot of studying, I could apply some rudimentary knowledge to practical circuits, but it was not until several years later when I learned about complex numbers that I began to understand how AC worked. The other challenge was code - this was a gigantic hurdle to me.

In my junior year of high school, I finally mustered the courage to take the exam. I thought I had enough knowledge to pass the written part of the technician test and might be able to pass the 5 WPM code part. Although I don't remember his name or call, the gentleman who administered the test had been a professional telegrapher and had numerous certificates attesting to his proficiency and speed. I passed the test and became WA4REM.

Having a license and having the resources to buy equipment are not the same thing. I found a used NC-60 general coverage receiver and I paired that with a CB HT that I nudged over to 10 meters. I also built some 6 and 2 meter gear, all of dubious functionality. Ah, the good old days of discrete components. All that was fun, but actual QSOs were local and very, very limited.

All of that went on the back burner, due to college, the Air Force, getting married, starting our family, and work. I allowed my license to lapse. Forty years later, in 2007, the bug struck again. I decided that I would have to bite the bullet and learn code, but really wanted to be a ham again. There were two surprises. Code was no longer required! Yay! And there were so many changes with technology and equipment. Digital modes? ISS QSOs? SDRs? And full-functioned radios that are actually light enough to pick up! I reviewed the sample questions and gambled that I remembered enough from the old days and went to a VE session near work. And I became a ham for the second time - AB3FN.

The first time around, I dreamed about having a Hammarlund receiver and a kilowatt transmitter and a big beam and ... you get the idea. But I'm more of a minimalist now. I bought a Yaesu FT-450 and put up a vertical, and was amazed at how well that worked. I've since upgraded to a Yaesu FTDX-1200 and have learned to appreciate modern DSP. In 2014, I decided to focus on QRP and cranked the power down to 5 watts (verified with a wattmeter). I missed my goal of working all 50 states (does Hawaii really exist?), but succeeded with my other goal of working over 100 DXCC entities.

Looking to the future, what do I want to do next? I want to grow my list of entities with QRP. If time allows this summer, I plan to build a VHF beam and rotator. Yes, build a rotator. Maybe play with microwaves - I did some of that while in the AF. Possibly do some longwave DXing, even though that's not an inherent part of hamming. Always tinker and build "stuff", however simple it might be. Maybe even try a little bit of CW, but that's a real stretch. I believe in Browning's notion that a man's reach must exceed his grasp.

What are the most interesting things I've discovered the second time around? Ham radio still offers something for almost everybody, and that's one of the keys to why this hobby is fascinating to so many. I've learned that there are many, many hams who have a wealth of knowledge and experience that they're eager to share - there's always something new to learn and a nearby Elmer willing to teach. But on the downside, I am a bit dismayed at the intentional QRM and downright rudeness that a very few hams demonstrate.

Overall, ham radio is a wonderful hobby, and I've tried to encourage others to join in. I'm delighted to see such a healthy mix of people at the MARC meetings - the old timers who have done so much, and the new folks who are so eager to join in all the fun. Wonder what the next ten or twenty years might bring?

# HAMFEST 2015!

## What can YOU do to help?

The MARC hamfest is on Saturday, July 11. This event is our main fundraiser for the year and requires many volunteers to keep it running smoothly. Below is a list of tasks that we need help with. What can YOU do to help this year? Let Mike, KF3CD know by sending him an e-mail at [kf3cd@arrl.net](mailto:kf3cd@arrl.net)

**Set up, Friday, July 10 at 5 PM:** Set up tables and chairs, clean bathrooms, install signs on the property, mark outdoor tailgate spaces, set up club tables and organize items for sale on club table. Set up usually takes about 2 hours.

**Hamfest, Saturday, July 11:** Most important is that we need a good number of volunteers to collect admission fees and park cars. The early hours are especially important because folks start to arrive between 5 and 6 AM. We also need several people to staff the club table and sell and record the items sold, as well as to collect fees from indoor vendors and clean up the site afterwards, including picking up and emptying trash, cleaning up the bathrooms and removing the tables and chairs. We are usually done and gone by 2 PM.

Note that again this year, we will have VE testing at 10 AM. Thank you to our team of dedicated VE's that make this possible! To register for a test, e-mail Dick Stewart, K3ITH at [k3ith@arrl.net](mailto:k3ith@arrl.net) and remember, a benefit of being a MARC member is that you get one free VE test per year! Also, our friend Bill Dobson, N3WD from the National Capitol DX Association and W3 QSL Bureau will be there, ready to check QSL cards for the ARRL Worked all States and DXCC Awards. He will also have QSL Bureau envelopes for sale. Be sure to say hi to Bill and thank him for coming to the hamfest! In the meantime, there is something that *everyone* can do to help: Talk up the hamfest to your radio friends, especially on the local repeaters!

## MARC Meeting: April 21, 2015

Steve Ikler, KS3K's retirement from the MARC Board and as MARC's Vice President, was announced at the meeting. This change was effective on April 30<sup>th</sup> and is due to a move to Florida. The Board voted for and approved Jeremy Carlo, N2ZLQ, to replace Steve on the Board. Welcome to the Board Jeremy and THANK YOU Steve for your many years of dedicated service as a MARC board member, Vice President and newsletter editor! We wish you and your wife Gail well in your Florida QTH and hope to hear you often on the air!



MARC President, Steve Werner, K3WK, (right) thanks Steve Ikler, KS3K, for his many years of service to MARC. The April 22<sup>nd</sup> meeting was also MARC's annual "Junque" auction. Once again, Dennis Silage, K3DS, did a great job as auctioneer and entertained a lively crowd, who found many good bargains.





## MARC FLASHBACK 1984's GENERAL LICENSE CLASS

In 1984, MARC offered a General Class License course at Cabrini College, after their first Novice class ended in the Fall of 1983. In the photo, left to right are: Alexandra, N3DZG, Peter, N3DXY, Unidentified, Art, KA3LYM, and instructors Al, W3DZI (now N3EA) and Bob, WA3PZO. Alexandra, Al and Bob are current MARC members.



In The Munster's episode 18, first aired on January 21, 1965, Herman overhears some kids playing Martian with their walkie-talkies. Naturally the kids lead Herman and Grandpa into thinking there really ARE Martians on Earth, and being good citizens, they notify the US Airforce. Herman's callsign is W6XRL4 and above is a rare copy of his QSL card.

Herman calls CQ: <https://www.youtube.com/watch?v=F-8RItOZE30>

The full episode can be seen here: <https://www.youtube.com/watch?v=cVPq0ls4tfo>



## UPCOMING MARC MEETINGS AND EVENTS:

MAY 19- BOB PALIN, N3JIZ - GROUNDING IN THE HAM SHACK  
MAY 25- RADNOR MEMORIAL DAY PARADE  
JUNE 12- MONTHLY MARC BREAKFAST MEETING  
JUNE 27-28 - FIELD DAY  
JULY 10- HAMFEST SETUP  
JULY 11 - HAMFEST  
JULY 21 - RICH RUSSO, KB3VZL - SOLDERING, CONSTRUCTION & KIT BUILDING  
JULY 23, 24 AND 25: KIMBERTON FAIR  
AUGUST 1: MARC VE TESTS  
AUGUST 8: MONTHLY MARC BREAKFAST MEETING  
AUGUST 11: MARC BOARD MEETING  
AUGUST 18- HOME BREW NIGHT  
SEPTEMBER 15 - TIM ELBERSON, C.E.R.T. PREPARIDNESS MONTH  
OCTOBER 10- MONTHLY MARC BREAKFAST MEETING  
OCTOBER 13- MARC BOARD MEETING  
OCTOBER 20 - MARC BUILD-A-THON (TWO TINNED TUNNAS)  
NOVEMBER 7- MARC VE TESTS  
NOVEMBER 14- MONTHLY MARC BREAKFAST MEETING  
NOVEMBER 17- RON BELLAMY, KC3ACL- RADIATION  
DECEMBER 12- MARC HOLIDAY PARTY



## KIMBERTON FAIR VOLUNTEERS NEEDED!

MARC has a long history of providing volunteers for the Kimberton Fair, in exchange for using the fairgrounds for free for our hamfest. That saves our club about \$1000 a year! The fair runs from July 20 to 25 but MARC only needs to provide volunteers to collect parking donations and to sell ride tickets on 3 days: Thursday July, 23, Friday, July 24 and Saturday July, 25. Each shift is 4 hours long. Ticket sellers sit with a coworker in an air conditioned booth, folks that collect parking donations stand along the main entrance with a bucket to collect donations and the fire co. provides free meal tickets to all volunteers. Volunteers need not be MARC members, you can invite a friend or family member to work with you.

Below is the MARC schedule for the fair. It's not too early to sign up to help! Contact Mike, KF3CD at [kf3cd@arrl.net](mailto:kf3cd@arrl.net) if you can spare 4 hours to help MARC!

- Thursday, July 23, 5 to 9 PM- Need 4 people to collect donations and 4 people to sell ride tickets
- Friday, July 24, 5 to 9 PM- Need 4 people to collect donations and 4 people to sell ride tickets
- Saturday, July 25, 1 to 5 PM- Need 4 people to collect donations and 4 people to sell ride tickets
- Saturday, July 25, 5 to 9 PM- Need 4 people to collect donations and 4 people to sell ride tickets

Many hams, especially newer licensees, don't seem to know much about the legend of the Wouff-Hong and Rettysnitch so I have included this article as a service to all MARC members with the hope that you never feel their pain! Mike, KF3CD

## The Wouff-Hong and Rettysnitch Legends By Rob L. Dey, KA2BEO

A wonderful article about these two legends was written by L.B. Cebik, W4RNL, and appeared in September 1996 *QST*, on pages 59 and 60. Cebik offered that "We should not be troubled by the size of the task at hand:

Curing Amateur Radio of its illegalities and indecencies. We have many more folks available to wield the Wouff-Hong and the Rettysnitch. No, not on others, but on *ourselves* - to make sure that we set a model for how amateur operations ought to be conducted."



The Wouff-Hong is used to enforce law and order in Amateur Radio operating work.

"The Old Man" (T.O.M.), originator of the Wouff-Hong and the Rettysnitch, is known to be the one and only Hiram Percy Maxim, W1AW, founder of the American Radio Relay League in 1914. T.O.M. wrote his first mention of a Wouff-Hong and a Rettysnitch in 1917. In 1919, the league received an actual Wouff-Hong specimen directly from T.O.M. The first photo of the Wouff-Hong was published in July 1919 *QST*.



The Rettysnitch is used to enforce decency in Amateur Radio operating work.

In 1921, the Washington DC Radio Club presented the Rettysnitch to the league's traffic manager. According to legend, the club received the Rettysnitch specimen from "The Old Man" himself. Cebik stated that "Even at its first public appearance, two of its teeth were missing, suggesting a long history of necessary and effective use. However, to this day, the Rettysnitch has lost no further teeth. It was ordered to be displayed by its mate." The Wouff-Hong and Rettysnitch stories were retold by Rufus P. Turner, when he wrote "Hamdom's Traditions: A Bedtime Story for Young Squirts" in May 1934 *QST*. According to Cebik, "In 1930, *The ARRL Handbook* had pictures of both instruments of enforcement. By 1936, only the Wouff-Hong appeared. By 1947 the *Handbook* had deleted both photos." An editorial on the Wouff-Hong (without the hyphen) appeared many years later in February 1961 *QST*. Presently, both of these legendary instruments are on display at the ARRL museum in Newington, CT.

Do the Wouff-Hong and Rettysnitch still hold their mystical power over us today? L.B. Cebik, W4RNL, answered this question well, when he asked "Why were the Wouff-Hong and the Rettysnitch so powerful to those early hams? Because those hams cared about Amateur Radio in their hearts. They desired that which they knew they could never have: A perfectly law-abiding, decent radio service that would inspire young and old alike to become hams or, lacking the inclination to electronics, to become admirers of hams. Every minute of on-the-air time was a chance to show how noble a pursuit Amateur Radio was and should always be. They feared the Wouff-Hong and the Rettysnitch as instruments of their own consciences, as they strove to meet the standards they set for themselves. And that is where you will find the Wouff-Hong and the Rettysnitch today - deep in your own conscience. If they seem to hold no power, then you know it's time once more to elevate your standards a notch higher, and then to strive to achieve them perfectly." He added, "May you never deserve their sting."



## MARC TUNA TIN RADIO BUILD A THON!

The monthly club meeting in October will be your opportunity build your own working 40 meter QRP transmitter and/or receiver! Thanks to Rich Russo, KB3VZL, for putting together this highly anticipated club project! This kit is perfect for first time builders and there's nothing more exciting than making contacts with a radio that you built yourself! We expect demand for these kits will be high so fill out the order form below and send it in with your payment now! Orders must be placed by the club meeting on August 18<sup>th</sup>!

The Two Tinned Tunas kit is the latest updated version of the classic TT2 kit designed in the 70's by Doug Demaw, W1FB. The kit comes complete with all PCB mounted parts: transistors, capacitors, resistors, connectors, crystals, crystal socket and key jack. You will build a complete, working CW 40m transmitter on 7.040 and 7.030 Mhz. Step by step assembly instructions with Hi-res pictures are included in the kit and there will be lots of help available if needed.

**TWO TINNED TUNAS Transmitter kit and SUDDEN STORM Receiver kit:** All parts come sealed inside a factory fresh tuna can with an easy open pull top lid. These kits are designated as the EZ Build version; there are no toroids to wind and no off-board connections to make down in the can. Pads traces and clearances are large making it an excellent kit for beginners. It is significantly easier and faster to build than previous versions and can be assembled in one evening by a beginner. The Instruction manual has 30 pages of illustrated steps.

The Two Tinned Tunas kit & Sudden Storm kit comes with 40 meter band components (7.040 MHz, a popular QRP frequency). QRPME has crystal kits available for the Two Tinned Tunas transmitter on 40 meters.

A SUDDEN STORM upgrade kit is available with 80m, 30m and 20m band modules & crystals.

You can build one or both. The price for the kits are: \$30 for the Two Tinned Tunas transmitter and \$40 for the Sudden Storm Receiver. Holy mackerel, that's cheap!

All tools needed for this build will be available for use at the meeting on October 20, 2015. Please bring your own tools if you have them. Recommended Tools: Long nose pliers, Diagonal cutting pliers, Soldering iron and Solder.

For details and questions contact Rich Russo at KB3VZL@verizon.net or call 610-539-2999

Product information & instructions can be found on the Website: [WWW.QRPME.COM](http://WWW.QRPME.COM)

Thank you again to Rich Russo, KB3VZL for making this project happen!



# ORDER FORM

Send with payment to:

MARC

P.O. Box 557

Eagleville, Pa. 19408

TWO TINNED TUNAS transmitter kit and SUDDEN STORM receiver kit

The MARC Build-A-thon is October 20, 2015.

**Orders must be paid for by the club meeting on August 18, 2015!**

NAME: \_\_\_\_\_ CALL SIGN: \_\_\_\_\_

PHONE #: \_\_\_\_\_ E-MAIL: \_\_\_\_\_

TWO TINNED TUNAS TRANSMITTER KIT: \$ 30.00

SUDDEN STORM RECEIVER KIT: \$ 40.00

Date paid: \_\_\_\_\_ Cash: \_\_\_\_\_ Check #: \_\_\_\_\_

# The Mid Atlantic Amateur Radio Club Presents the



## Saturday, July 11th 2015

Rain or Shine - Indoor & Outdoor Facilities  
**Kimberton, PA- Fire Co. Fairgrounds**

Route 113 and Firehouse Lane - South of the intersection with Route 23

VE tests at 10AM! Register by contacting Dick Stewart at [k3ith@arrrl.net](mailto:k3ith@arrrl.net)  
Free QSL card checking for ARRL DXCC & WAS awards while you wait!

### Inside Tables With Electricity

\$10 Each for 1-4 tables, \$8 each for 5 or more, not including admission. No advance tailgate sales.

Indoor Table Reservations, contact Mike Pilotti, KF3CD

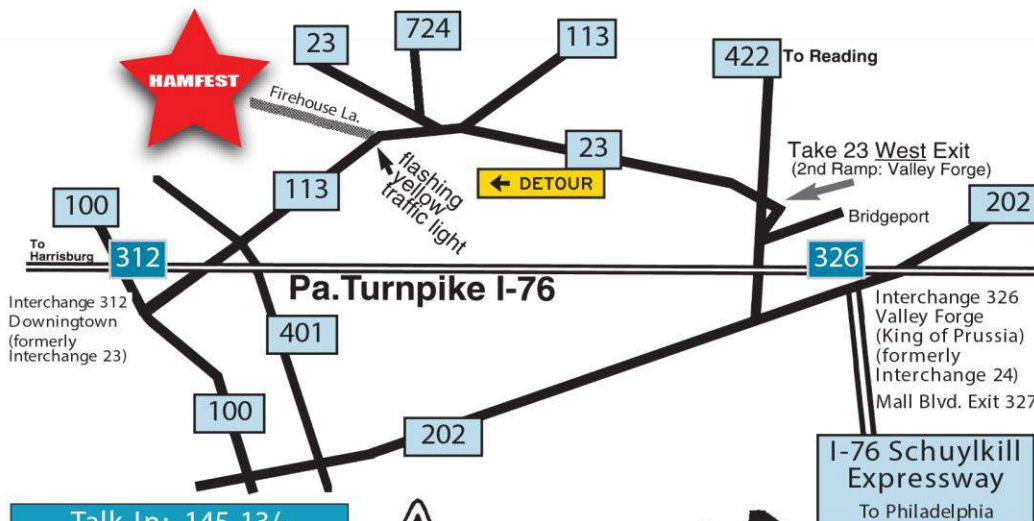
Phone: 610-696-5040 E-mail: [kf3cd@arrrl.net](mailto:kf3cd@arrrl.net)

#### • Sellers- 7 a.m. - \$6 Tailgate Space • Buyers- 8 a.m. - \$6 Admission

- Car width space/head in parking
- Not including admission

- No reserved tailgate space
- Unlicensed spouse and children of licensed ham free

Hamfest Information: [hamfest-info@marc-radio.org](mailto:hamfest-info@marc-radio.org) or website at: [www.marc-radio.org](http://www.marc-radio.org)  
or write MARC, PO Box 557, Eagleville, PA 19408



From the East:  
New Jersey: PA Turnpike West to Exit 326 (Valley Forge).  
Go through toll plaza and take first exit on right (Valley Forge). Follow to Route 23. See ALL below.  
Philadelphia: Schuylkill Expressway West to Mall Blvd. Exit 327 (old exit 25). Turn Right on Mall Blvd. Go to stop light, turn Right on to Gulph Road. Follow to Route 23. See ALL below.

ALL-Important for 2015! Route 23 will be closed west of Valley Forge Park for bridge construction!  
DETOUR: After VF Park turn left onto Valley Park Rd. (Opposite VF post office), bear right onto Clothier Springs Rd, turn right onto S Whitehorse Rd, cross bridge and turn left on E Pothouse Rd. Follow to Route 113 and turn left on Route 113 South. Follow approx. 1.5 miles to hamfest on right.

From the West:  
Harrisburg: PA Turnpike East to Exit 312 (Downingtown).  
Route 100 South to Route 113 North. Cross Route 401. Continue approx. 5 miles on Route 113 to Fairgrounds entrance on Left.

Reading: Route 422 East to Route 724 (past Pottstown).  
Turn Left off exit ramp onto Route 724. Route 724 ends and becomes Route 23. Follow Route 23 East to Route 113 South (McDonalds on Left). Turn Right onto Route 113, follow approximately 1.9 miles, Fairgrounds are on the Right.

From the South:  
Delaware: I-95 North to Route 202 North. Continue to exit for Route 401. Turn Left off of exit ramp onto Route 401 West. Continue to Route 113 North. Turn Right onto Route 113, continue approx. 5 miles to Fairground entrance on Left

From the North:  
Allentown: Northeast Extension South to PA Turnpike Exit 326 (Valley Forge). Go through toll plaza and take first exit on right (Valley Forge). Follow to Route 23. Continue on Route 23 West through Valley Forge Park and Phoenixville. Left on Route 113 South (McDonalds on Right). Follow approximately 1.9 miles, Fairgrounds are on the Right.

GPS Coordinates: N 40° 07.626 min  
W 75° 34.008 min

Talk In: 145.13/-  
and 147.06/+ CTCSS 131.8

Food and Beverage Sales by  
Authorized Vendors Only.



[www.marc-radio.org](http://www.marc-radio.org)