



FEEDBACK



Web Site k3dn.org

Warminster Amateur Radio Club

December 2022

Next Meeting December 1st - Eric Fleischer on Craven Hall or Bucks County history

President's Message

Hello everyone,

The holidays are upon us. Plenty of things to do, decorate, shop, and all of the things associated with the holiday season. However, the most important thing is to be with family and friends. At this time of the year we think of loved ones who have passed on as well as new family members welcomed into this world. We must also think of all of our service members who while protecting us from harm, are deployed overseas and will miss this holiday season with their families. These brave men and women need to be in our thoughts and prayers throughout the year not just this holiday season. We also must keep their families who are missing them so much and worry about their safety, in our thoughts and prayers also. We must not forget our first responders who put their lives on the line each and every day to keep us safe. They too will miss some of the holiday festivities because they need to be on the front line 24 hours a day. Hopefully we will all find peace and tranquility throughout this season and in the New Year.

I personally want to wish everyone a healthy and safe holiday season and a very happy New Year.

Ray – KA3TRU

Warminster ARC General Meeting November 3, 2022

Call to Order 7:30pm

Attendance:

Introductions (11 on Zoom, 18 In-person attendees)

Minutes from last Meeting:

Motion made and seconded to approve as submitted.

Committee Reports:

Treasurer's Report: Tom (K3PLA)

As given

Programs: Dave (KC3RAT)

December- *Eric Fleischer from Craven Hall speaking on Craven Hall or Bucks County history.*

January-

Membership: Tony (W3FLH) *140 members. 117 in good standing. 2023 dues notice coming out soon.*

Public Service: George (N3HBT) *Nothing*

Classes: Dan (K3GMQ) & Dave (KC3RAT) Pending (Fall 2022)- *In-person Tech classes scheduled to begin Nov. 14. and run for eight weeks (7:30 pm) every Monday except for the last Monday of the each month.*

VEC Testing: Larry (WA3ELQ) *Sessions held the last Monday in November and December.*

Repeater: Brian (N3EXA) *All working*

Good and Welfare: Ken (K9KJL) *Sympathy card sent to the Luce family recognizing the passing of Rich Luce (AG3L)*

Other Committees:

Radiosport: Mark (A3AK) *CW Worldwide contest Friday, Saturday and Sunday after Thanksgiving*

Hamfest: Tony (W3FLH) *Will be getting the application into the college soon.*

Field Day: **NEW CHAIR NEEDED!!**

Old Business:

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Club Station: Interest/Activity *Nothing to report*

Elmer Program: *Ongoing*

Outstanding Ham of the Year- *Voted on by the board. Brandon (KC3DYT/N3UO) will order the plaque to be presented in December.*

Website- *Needs Updating*

New Business:

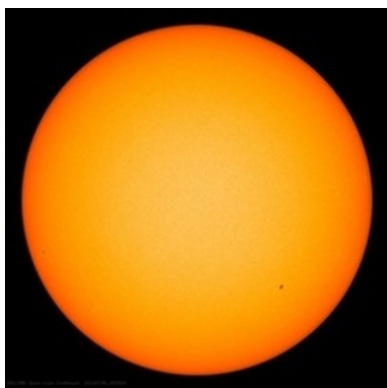
Getting back to normal for meetings- *Refreshments will be served!*

Good and Welfare- *Ken (K9KJL) is resigning. Regina (KC3LRF) has volunteered to take over for Ken.*

Motion to Adjourn 7:50 pm

Presentation: *ARRL Night with George Miller (W3GWM) on Zoom*

The K7RA Solar Update



Tad Cook, K7RA, of Seattle, Washington, reports for this week's ARRL Propagation Bulletin:

Sunspot numbers and solar flux did not seem to correlate this week. Flux rose, and spots fell.

The average daily sunspot number declined from 79.8 to 72.3, but average solar flux numbers rose from 129.9 to 137.2. This tells me that the number and area of sunspots was less, but the 10.7-centimeter radiation from those spots increased.

A new sunspot emerged on November 10, another on November 13, and two more on November 16, the last day of our reporting week, which runs Thursday through the following Wednesday.

In our bulletin from 1 year ago, the average daily sunspot number was only 36.4, and solar flux was 89.1, so if the latest activity seems a bit lackluster, we can see that the sunspot cycle is making progress and is expected to peak around July 2025.

We get better HF propagation at higher frequencies when X-rays from the sun are more intense, and they correlate with sunspot numbers and the 10.7-centimeter radiation. This radiation charges the ionosphere, increasing density.

Back in 1957 - 1959, at the peak of Solar Cycle 19, the radiation was so intense that (I've been told) 10 meters was open worldwide, around the clock. Cycle 19, had, by far, the highest recorded sunspot count in history, with nothing like it before or since.

Here is the prediction for solar flux: 133, 125, and 122 on November 17 - 19; 120 on November 20 - 21; 122 on November 22; 125 on November 23 - 24; 115 on November 25 - 26; 120 and 125 on November 27 - 28; 130 on November 29 - 30; 135 on December 1 - 12; 120 and 110 on December 13 - 14, and 105 on December 15 - 18.

Predicted planetary A index, which gives us a clue into possible geomagnetic unrest, is 5, 8, 16, 20, and 12 on November 17 - 21; 8, 5, 8, 15, and 18 on November 22 - 26; 12, 8, 5, 5, 12, 18, and 8 on November 27 through December 3; 5 on December 4 - 7; 8 on December 8 - 9; 5 on December 10 - 11; 10 on December 12 - 13; 5 on December 14 - 16; 15 on December 17, and 18 on December 18 - 19.

The ARRL 10-Meter Contest is coming up, and will take place during the weekend of December 10 - 11. Expect better propagation than we saw in 2020 and 2021. Although predicted solar flux is not high, the prediction above shows the highest solar flux (135) over that weekend, and planetary A index at a low value of 5, indicating predicted geomagnetic stability. But of course, things may change.

Sunspot numbers for November 10 through 16 were 79, 57, 65, 74, 77, 69, and 85, with a mean of 72.3. The 10.7-centimeter flux was 138.7, 137.6, 138.2, 137, 141.5, 134.2, and 132.9, with a mean of 137.2. Estimated planetary A indices were 2, 9, 5, 7, 4, 2, and 2, with a mean of 4.4. Middle latitude A index was 2, 9, 3, 6, 3, 2, and 2, with a mean of 3.9.

Send your tips, questions, or comments to k7ra@arrl.net.

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A comprehensive K7RA Solar Update is posted Fridays on the ARRL website. For more information concerning radio propagation, [visit](#) the ARRL Technical Information Service, [read](#) "What the Numbers Mean..." and [check out](#) the Propagation Page of Carl Luetzelschwab, K9LA.

A propagation bulletin [archive](#) is available. For customizable propagation charts, visit the [VOACAP Online for Ham Radio](#) website.

[Share](#) your reports and observations.

A weekly, full report is posted on [ARRL News](#).

Courtesy of the ARRL Newsletter

Support Young Hams on #GivingTuesday

#GivingTuesday is November 29, 2022 - a growing annual movement where individuals and organizations, like [ARRL](#), come together to unleash the power of radical generosity. This year, ARRL's theme for #GivingTuesday is **young hams**. From now to #GivingTuesday, ARRL wants to raise \$25,000 to help support and expand its programs and initiatives for young radio amateurs. Donate to ARRL now at www.arrl.org/give.

Watch and share the video: <https://youtu.be/ns6VR8h-8T8>

"The next generation of radio amateurs is already here," says ARRL staff member Bob Inderbitzen, NQ1R, who co-advises the ARRL Collegiate Amateur Radio Program. "There is a vibrant, well-networked community of students and campus radio clubs at colleges and universities throughout the nation. School teachers and local radio clubs work together to bring amateur radio into classrooms. Youth programs, including Amateur Radio on the International Space Station (ARISS) and outreach to scouts bring together our unique partnerships to introduce ham radio to more kids."

#GivingTuesday donations will help fund ARRL programs and services not covered by membership fees alone. Gifts will help subsidize ARRL Student Membership and ARRL Youth Licensing Grants, as well as resources and programs that attract and keep young hams active, involved, and engaged in amateur radio.

A short video on ARRL's [YouTube](#) channel includes young hams describing why they "love ham radio." [Read more](#) about ARRL's ongoing work to support young hams, and give now at www.arrl.org/give.

Courtesy of the ARRL Newsletter

Dodge County Amateur Radio Emergency Service Receives ServeNebraska Award

The Dodge County Amateur Radio Emergency Service® (ARES®) has received the 2022 Disaster Volunteer Award at the ServeNebraska Step Forward Awards Luncheon on November 4, 2022.

Presented by Nebraska First Lady Susanne Shore, the award recognizes Dodge County ARES for a critical role in responding to the 2019 flooding in Fremont, Nebraska, and the surrounding areas. Dodge County ARES took significant steps to ensure that the Fremont community is always prepared. Amateur radio operator Steve Narans, WB0VNF, was cited for his role in retrofitting a county communications trailer for setup and use by first responders.

The group participated in a full-scale disaster drill with the Nebraska Army National Guard, Fremont Police, and Fremont Fire Department to test their skills and demonstrate how their services fit in among other disaster response efforts. Dur-



Presenting the 2022 Disaster Volunteer Award is Nebraska First Lady Susanne Stone, Steve Narans, WB0VNF, Wesley Payne, KE0WHA, and Wes Chrisman, KD0PGV. [Dave Theophilus, W0NRW, photo]

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ing severe weather, they monitor weather conditions and report to the National Weather Service for its use in issuing severe weather warnings for Dodge County.

The group was nominated for the award by Dodge County Emergency Manager Tom Smith. Selection for the award was made by Nebraska Governor Pete Ricketts.

The ServeNebraska Step Forward Awards recognize exemplary volunteers across the state for their time and service aimed at making their communities better. The awards are the most prestigious awards given for volunteerism in the state of Nebraska. Dodge County ARES was among eleven 2022 honorees.

For more information about the ARRL Amateur Radio Emergency Service® (ARES®), visit <http://www.arrl.org/ares>.

Courtesy of the ARRL Newsletter

Call For Instructors

ARRL is embarking on a journey of training for club officers and members. The new club development webinar series will include live Q&A, and the live sessions will be available to everyone. The webinars will be recorded and available to ARRL members through the ARRL Learning Center. We're looking for ARRL members to help us produce, create, and deliver the webinars.

The purpose of this program is to offer a series of short webinars that offer training for the skills needed to build and run a successful club. Topics will include leadership, activities, finance, and recruiting. Envisioned is a series of 10 or more webinars, all lasting from 20 to 30 minutes.

The hope is that club officers and members will view the series as an opportunity to learn from others that have been able to put those skills to use. To do this, we need the help of membership. We're looking for instructors to help with building the training. We're also looking for members that can present in a standard format and have the skills necessary to do the training. If this sounds like something that you are interested in, please contact Mike Walters, W8ZY, at mwalters@arrl.org for further details. We hope to start this series in late January 2023.

Courtesy of the ARRL Newsletter

Calvert Amateur Radio Association Conducts Simulated Emergency Test

On October 15, 2022, the Calvert County Auxiliary Communications Services of Maryland, associated with the Calvert Amateur Radio Association (CARA), conducted a Simulated Emergency Test (SET).

The test was designed to evaluate the capability of a county-provided, amateur-band radio system that uses Kenwood TM-V71A transceivers and Remoterig RRC-1258 hardware over the county-secure intranet to a tower site in Barstow, Maryland.

Remoterig gear allows for the separation of the front panel from the radio's RF deck, similar to a mobile installation. But with Remoterig, the separation cable is a TCP/IP network, allowing an arbitrarily long distance between the front panel and the RF deck. For the SET, the radio's front panels were in the Emergency Operations Center (EOC), and the RF decks were at a tower site about 3 miles away, near the geographic center of the county.

The planning and implementation of this system was guided by Calvert RACES Officer Bill Hackett, N3XMZ, and Calvert ARES® Emergency Coordinator Shawn Donley, N3AE, using county funding.

The first part of the test was to determine if MT63-2000L digital mode would work over the Remoterig system to augment existing Winlink capability.

The second part of the test was to have CARA members transmit on simplex from mobile transceivers from various locations in the county to the Barstow tower. Transmissions from low-lying areas were preferred, such as the many waterways and other locations

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that may need to be accessed during disasters. The tests were on 2 meters and 70 centimeters.

The results showed that additional work is needed to send MT63-2000L over Remoterig terminals, and some changes to the audio quality settings are necessary (sampling rate and word size). As the Diamond X300NA antenna on the tower is 350 feet above the ground and the terrain of the county is flat, nearly all locations were successful in contacting the ham radio operators at the EOC, including those using low power at the tower site.

Due to unforeseen problems with scheduling a Section-wide October SET, CARA took the opportunity to evaluate its new system. Overall, the test was successful.

Courtesy of the ARRL Newsletter

Reaching Youth Through Amateur Radio in the Classroom

ARRL Education and Learning Manager Steve Goodgame, K5ATA, attended the Georgia Educational Technology Conference, held November 2 - 4, 2022. The conference was the first part in a series of planned ARRL exhibits to meet with teachers and promote amateur radio in the classroom. Assisted by ARRL Teachers Institute Instructor Wayne Greene, KB4DSF, along with volunteers Cyndi Goodgame, K5CYN, and Betsey Greene, they spoke to hundreds of teachers, school administrators, and technology directors about the ARRL [Teachers Institute on Wireless Technology](#).

ARRL's participation at this conference, as well as future events, is meant to inform and network with educators looking to incorporate amateur radio into their curriculum.

"The level of interest among teachers was incredible!" said Goodgame. "Our booth enjoyed heavy traffic for the duration of the conference, much of the time with all four of us engaged in discussions with multiple people simultaneously. Except for a couple of teachers we met who were already hams, few teachers had heard of amateur radio before this conference. These teachers were absolutely amazed at the possibilities that exist when including amateur radio and related educational experiences in their schools."

"Teachers were especially excited at the connections between amateur radio and space. We shared information about the ARISS program -- [Amateur Radio on the International Space Station](#) -- as well as communicating via amateur satellites. Enough teachers were interested in learning more about the relationship between amateur radio and satellites communications that we put together an impromptu live demonstration using two handhelds and an Arrow antenna we had for display in the booth. We gathered a crowd of teachers, along with a few students who were presenting their Student Showcase projects and headed outside. We enjoyed a good satellite pass and made contacts through AO-27. One of the students even got on the air!"

"Overall, it was a great conference and a great opportunity for ARRL to network with educators and work with them to help get more youth engaged in amateur radio."

Courtesy of the ARRL Newsletter



2022 - 2023 Contest Calendar

December

2-4 [160 Meter](#)

2200 UTC Friday, ends 1559 UTC Sunday

10-11 [10 Meter](#)

0000 UTC Saturday; runs through 2359 UTC Sunday

18 [Rookie Roundup-CW](#)

1800 to 2359 UTC

January

1 Straight Key Night

0000 UTC through 2359 UTC

1 Kids Day

1800 UTC through 2359 UTC

7-8 RTTY Roundup

1800 UTC Saturday, ends 2359 UTC Sunday

21-23 January VHF

1900 UTC Saturday, ends 0359 UTC Monday

V.E. TEST LOCATIONS

Confirm all information, in advance, with the contact person. Licensed applicants must bring the original, and one photocopy of their license. All applicants, including children, must bring two forms of positive ID. Also bring the original, and a copy, of any Certificate of Successful Completion needed to prove current status. The ARRL VEC'S 2022 test fee is **\$15.00**.

Warminster Amateur Radio Club, Monthly, Last Mon. 7:00 pm at the Wilson Senior Community Center 580 Delmont Avenue Warminster, PA 18974 George Brechmann (215) 443-5656.

Atco, NJ, The fourth (4th) Tuesday of each month, at 7 p.m. Winslow Township Senior Center, 33 Cooper Folly Road, 08004-2603.
Mark (K2AX) jtra@comcast.net

Levittown, PA, Monthly, 3rd Monday at 6:30. Falls Township Building - Ben Johns, K3JQH, 215-657-5994

Telford, PA, RF Hill ARC. Indian Valley Library. Held the third Monday of odd months (January, March, May, July, September, November)
Contact: Jim Soete 215-723-7294
wa3ylq@arrl.net.

Philadelphia, PA, Testing is done on the 4th, non holiday Thursday of the month at the, Community Ambulance Association of Ambler, 1414 E Butler Pike, Ambler PA 19002 at 7:00 PM We also are testing on Saturdays at least once per quarter at 9:00 AM. For further information contact James McCloskey at jmccloskey@msn.com and by phone 215-275-2979.

Lansdale, PA Testing on the fourth non-holiday Thursday of the month starting at 7:00 PM. The Lansdale Library Community Room Vine St. and Susquehanna Ave. Lansdale, Pa. Registration is required 48 hrs. or more before the scheduled exam date. If there are no registrations the scheduled exam date will be canceled. NO WALK-INS. You can register by contacting:
Olaf N. Markert - Phone (610) 517-5074, E-mail w3pa@arrl.net
Alt Contact: Jim, 610-287-5630

➤ ATLANTIC DIV. HAMFESTS ➤ 2023

January

14 [Harrisburg WinterFest](#)

Vietnam Veterans of America

8000 Derry St.

Harrisburg, PA 17101

<http://www.w3uu.org>

April

15 [Sussex Amateur Radio and Electronics Expo](#)

Cheer Community Center

20520 Sand Hill Rd.

Georgetown, DE 19947

<http://www.radioelectronicsexpo.com/>

29 [York Hamfest](#)

Elicker's Grove Park

511 Roth Church Road

Spring Grove, PA 17362

<http://yorkhamfest.org>

CLUB INFO**PUBLIC SERVICE****CLUB STATION**

The WARC club station is open to anyone with an interest, on the first Thursday of the month (meeting night) between the hours of 6:30 and 7:30 pm. with the exception of the December dinner meeting For further information, call George Brechmann N3HBT at 215-443-5656.

WARC ALUMNI MEMBERSHIP

An Alumni membership category is available for WARC members who are unable to attend meetings and club activities on a regular basis because of health considerations, travel impediments, or other hardships. Dues for the Alumni membership are \$10.00 annually and are approved by the Board. Please contact the Membership Committee for more information if interested."

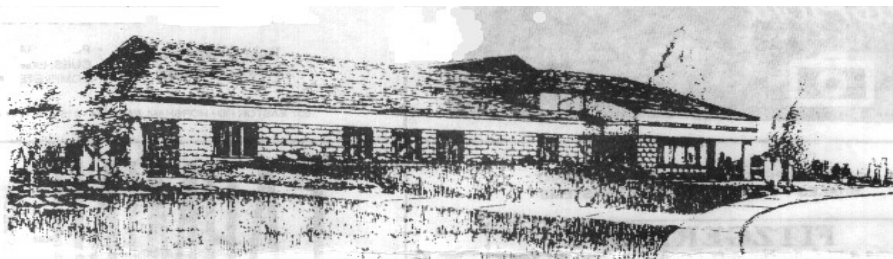
ATTENTION MEMBERS

The Membership Committee can provide Club badges. Two types are available: an engraved plastic callsign and name badge for \$8 or a free, laminated plastic, photo ID badge/card. The photo id badge is included with your membership. Pictures for the club badge will be taken before club meetings on even numbered months. If you do not have at least a Warminster Amateur Radio Club badge with your picture on it, please contact your Membership Chairs at the WARC monthly meetings. Otherwise, please contact Membership by email at: membership@k3dn.org.

If you want to have your picture taken to be placed on the 'Members' Photos' section of the www.k3dn.org website, please contact Membership with your interest. When we get enough people who are interested we will post a notice in Feedback and have a camera ready at the following club meeting.

PROGRAMS 2022**December - Eric Fleischer on Craven Hall or Bucks County history**

The Club Station - K3DN - is located at the Benjamin Wilson Senior Center, Delmont Avenue, Warminster, PA. The station is open for club members and the interested general public on the first Thursday of the month (meeting night) between the hours of 6:30 and 7:30 pm. with the exception of the December dinner meeting . The station is fully operational on HF (80 meters through 10 meters) both phone and CW. There is an assortment of amateur radio shareware which may be copied under the shareware licensing agreement.



For additional information on the Club Station please call the Station Manager N3HBT - George at 215-443-5656.

➤ WARC Meetings are held the first Thursday of each month at 7:30 pm at the Benjamin Wilson Senior Center, Delmont Avenue, Warminster, PA. Talk in is available on the 147.09 & 443.950 repeaters.

SKYWARN INFORMATION

Bucks County SKYWARN Weather Spotter PRIMARY FREQUENCY: 147.300MHZ (+ 131.8)

Fairless Hills, PA (many remote access locations throughout Bucks County)

Mount Holly NWSFO SKYWARN Homepage:

<https://www.weather.gov/phi/Info>

SKYWARN Basic Weather Spotter Educational Programs URL:

<https://www.weather.gov/phi/classes>

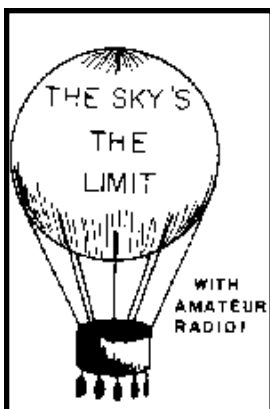
➤ CLUB EQUIPMENT

WARC has 2 Baofeng UV-5R dual band HT's and a Yaesu FT-2900 2M mobile that are available for use by members of the club.

The radios are available on a month-by-month basis and have been purchased primarily to help new hams get on the air.

However, they may also be used by any club member who is in need of a temporary 2-meter radio. They are also available for use by participants in WARC's public service activities.

DE, Tony Simek N3YNH



The Warminster Amateur Radio Club Announces Free Ham Radio Instructional Classes

If you're interested in Ham Radio, or think you might be, this is your opportunity. Perhaps you'd like to learn about digital communications, VHF, UHF, satellite, or perhaps you'd rather sit down and chat with someone in South Africa, Russia, Great Britain or in the space station.

For further information contact George Brechmann, N3HBT at 215-443-5656.

Area Repeaters

VHF

145.310 R.F. Hill
145.350 Doylestown R.C.
146.790 Penn Wireless
145.330 Hilltown
146.670 DVRA
146.685 Holmesburg
146.925 Willingboro
147.000 Ham Buergers
147.030 Phil-Mont
147.090 Warminster
147.270 Frankford
147.300 BEARS
147.390 CBRA

220

224.580 PackRats
223.76 K3NAL

UHF

442.650 DVRA
443.250 TAG
443.050 Metro-Comm
443.950 Warminster
444.200 BEARS
447.475 WR3B
448.225 Penn Wireless
444.759 RF Hill Analog/
Fusion

D-STAR

146.61000 K3PDR DV
445.18125 K3PDR DV
445.01875 AA3E Montco
RACES

6 Mtr

53.030 WA3BXW
53.230 N3DQZ
53.320 K3MFI

Bucks County Amateur Radio Emergency Service (BCARES)

www.bucksares.org

Bucks County ARES will be on the air Wednesdays, at 9:00 PM . We will be using Warminster Amateur Radio Club's repeater on 147.090, pl 131.8. This net is linked as shown in the Net Schedule box for the Wednesday night net. It may also be linked to 147.300.

Winlink Gateway Stations:

Lower Bucks NY3J-10

145.530 Bensalem

Net Schedules

Sunday	2000	10 Meter Net	28.445 MHz
Wednesday	2000	2 Meter Net	147.09 Rptr.
Wednesday	2000	Linked w/ 2 Meter Net	443.95
Rptr.Wednesday	2000	Linked w/ 2 Meter Net	53.230 Rptr.
Sunday	2030	Informal Net	223.5 Simplex
Thursday	1900	Mont. Cnty RACES Net	146.835 Rptr.

Are you submitting an article for the Feedback ?

Contributions of articles to be published are always accepted for consideration. Please follow these guidelines:

- E-Mail to:
wa4ywm@comcast.net
Or via snail mail to:
FEEDBACK EDITOR
Warminster Amateur Radio Club
Box 113
Warminster, Pa 18974
- Use both upper and lower case letters.
- Use your program's spell check.
- If you don't have a computer, then typewritten sheets are o.k., but please use both upper and lower case.
- Put your name and call at the beginning or end of the article, and show credits if you are using material from another source.
- Deadline for articles is the Saturday before the regular meeting.

For general club correspondence:
k3dn@k3dn.org

Visit our Home Page at:
<http://www.k3dn.org>

The annual dues rate structure is as follows:

Full Member: \$25.00
Student: \$ 7.50
Alumni: \$12.50

- **Are your dues current ?**

2022 Officers

Executive Officers

President	Ray Oechslin	KA3TRU	267-269-3198
Vice-President	Dave McGowan	KC3RAT	215-850-5846
Secretary	Dan Myers	K3NXX	215-957-2343
Treasurer	Tom Newman	K3PLA	215-630-5965
Director (A)	Doug Becker	KC3MNQ	215-932-1370
Director (E)	Larry Abbott	WA3ELQ	215-704-3282
Director (A)	Bruce Farrington	WA3ZPC	215-262-4215
Director (E)	George Brechmann	N3HBT	215-443-5656
Past President	Tony Cuttone	W3FLH	267-679-9297

Committee Chairpersons

ARES/RACES Liason	Karl Harris	K3KH	215-264-1855
ARRL Liason	Irwin Darack	KD3TB	215-343-8170
Awards Manager	Vince Pironti	KD3TC	215-674-0446
Classes	Dave McGowan	KC3RAT	215-850-5846
	Dan Clementi	K3GMQ	
Digital and APRS	Ron Wenig	NY3J	215-638-9257
Feedback Editor	Jim Elmore	WA4YWM	215-538-1889
Field Day 23			
Hamfest 23	Tony Cuttone	W3FLH	267-679-9297
Hamwear	Kathy Acker	KC3FBY	215-815-7978
Holiday Dinner	George Brechmann	N3HBT	215-443-5656
Membership	Tony Cuttone	W3FLH	267-679-9297
Net Manager	George Brechmann	N3HBT	215-443-5656
PA QSO Party	Mark Kempisty	AA3K	
Publicity	Herb Hickmott	KB3VMN	267-718-3601
Refreshments			
RF Interference	Bill Ballantine	K3FMQ	215-766-0764
Repeater Coordinator	Brian Taylor	N3EXA	215-257-6303
Safety Officer	Mike Malone	W3MJM	215-639-2175
Station Trustee	George Brechmann	N3HBT	215-443-5656
Sunshine Club	Regina Litman	KC3LRF	
Township Liason	George Brechmann	N3HBT	215-443-5656
VE License Testing	Larry Abbott	WA3ELQ	215-704-3282
VHF/UHF/MW	George Altemus	KA3WXV	215-855-3856
Website Coordinator	Al Kanschak	WI3Z	215-491-9941
Youth Programs			