



FEEDBACK



Web Site k3dn.org

Warminster Amateur Radio Club

August 2022

Next Meeting August 4th -

Warminster ARC General Meeting July 7, 2022

Call to Order: 7:30pm

Attendance and Introductions:

Hybrid meeting with 8 Zoom on-line and 23 in-person attendees.

Minutes from last Meeting:

Motion made and seconded to approve as submitted.

Committee Reports:

Treasurer's Report: Tom (K3PLA) *As submitted*

Programs: Dave (KC3RAT)

August- *T/B/D*

September- *T/B/D*

Membership: *136 members; 116 members in good-standing*

Public Service: George: (N3HBT) *Nothing until October*

Classes: Dan (K3GMQ) & Dave (KC3RAT) *Pending (Fall 2022)*

VEC Testing: Larry (WA3ELQ)

Four applicants took the test. Two new techs, one General upgrade, one

failed. Next

session, July 25.

Repeater: Brian (N3EXA) *nothing new*

Good and Welfare: Ken (K9KJL)

Sympathy card sent to family of Doc Morein (KA3RAUsk)

Sympathy card sent to family of Ron Small (WB2OOBsk)

Other Committees:

Radiosport: Irwin (KD3TB) *UHF world championships*

Hamfest: Tony (W3FLH) *nothing new*

Field Day: Doc (W3GAD)

26 Radio Operators participated. Could have used more help. Operations were too spread out, need to be more centrally located. The pavilion is not a healthy environment. Doc will be stepping aside, new Field Day Chairperson needed for next year.

Old Business:

Club Station: Interest/Activity:

Open; up and running. There is minimal access to the station at BWSC depending on other center activities.

Elmer Program: *Ongoing*

Clean-up crew of WARC storage at BWSAC (Mike WJ3O):

Currently no access to the attic loft. Bruce (WA3ZPC) is looking into local storage/rental units.

New Laptop & TB Drive for Club Use:

A motion was made and seconded to present a proposal, to the general membership, for their vote on purchasing a new computer for club use. The proposal (which will include the computer's vital characteristics) will be available for vote on Constant Comment. It will be a straight up and down (for or against) vote without further comment.

New Member Chair: Tony (W3FLH)

Budget FY 2022-2023:

** Presented to the general membership on Constant Contact, with 61 members voting (quorum). All 61 approved.*

** Prudential Bank sponsor is stopping after a full twelve months. The loss of the sponsorship does not effect the new budget.*

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New Business:

* Herb (KB3VMN) will be the new Public Information Officer replacing Bernice (KB3PCX) at Publicity.

* Web site needs to be kept updated. A member needs to actively feed the Web Master, Al (W13Z), information (current events) to update the site.

** At 8:20pm, Zoom was disconnected from meeting **

Motion to Adjourn: 8:30pm

Presentation: None

The K7RA Solar Update



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

Although images of the sun this week showed plenty of sunspots, only two new spots emerged: one on July 21, and another on July 25.

Average daily sunspot number declined from 137.3 to 91.1, and the average daily solar flux softened by 50 points to 107.6.

Geomagnetic indicators began this reporting week fairly active, with planetary A index at 22, then it quickly quieted down to an average of 11.7 for the week, higher than the 9.4 average reported last week. Average middle-latitude A index increased from 9 to 10.4.

A look back a year ago shows this cycle is progressing nicely. In ARL-

P030 in 2021 average daily sunspot number was just 48.9, and average daily solar flux only 81.3.

A year prior, the average daily sunspot number in 2020 was just 3.1! That is because there were five days with no sunspots, and then two days with a sunspot number of only 11, which is the minimum non-zero sunspot number.

A sunspot number of 11 does not mean 11 sunspots. It means there was just one sunspot group (which counts for 10 points) and one sunspot in that group (counting for 1), producing a total of 11, because of the arcane historical method of counting sunspots.

Predicted solar flux shows it peaking at 130 on August 11. Predicted flux is 98 on July 28, 96 on July 29 - 30, 98 again on July 31 and August 1, 96 on August 2 - 3, 98 on August 4, then jumping to 115 on August 5 - 6, 113 on August 7 - 8, then 120, 125, 130 and 125 on August 9 - 12, 120 on August 13 - 15, 118 on August 16 - 17, then 114 and 110 on August 18 - 19, 108 on August 20 - 21, then 106 and 102 on August 22 - 23, 100 on August 24 - 27, and 108 on August 28 - 29.

Predicted planetary A index is 8 on July 28-29, 12 on July 30, 8 on July 31 and August 1, 5 on August 2 -3, 8 on August 4, 5 on August 5 -10, 8 on August 11 -12, 5 on August 13 - 16, 22 on August 17, 15 on August 18 - 19, 8 on August 20 -21, 5 on August 22 - 25, 10 and 12 on August 26 - 27, and 5 on August 28 - 29.

Sunspot numbers for July 21 - 27, 2022 were 124, 107, 96, 80, 100, 78, and 53, with a mean of 91.1. 10.7-centimeter flux was 121.7, 114.7, 110.5, 107.1, 102.3, 98.8, and 98, with a mean of 107.6. Estimated planetary A indices were 22, 11, 17, 9, 6, 8, and 9, with a mean of 11.7. Middle latitude A index was 14, 11, 15, 9, 8, 7, and 9, with a mean of 10.4.

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

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 Luetzelshwab, K9LA.

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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

Amateur Radio to Be Showcased at 2022 EAA AirVenture in Oshkosh, Wisconsin

ARRL member-volunteers will ensure amateur radio is well-represented at the annual EAA AirVenture in Oshkosh, Wisconsin, on July 25 through July 31. More than 10,000 aircraft and a half-million flight enthusiasts make Wittman Regional Airport the busiest airfield in the world during AirVenture.

ARRL has participated at AirVenture since 2018, supporting an exhibit that encourages pilots and aviation enthusiasts to discover radio communications and radio technology through ham radio. ARRL Director of Public Relations and Innovation Bob Inderbitzen, NQ1R, has organized a booth (#2152 in Hangar B) and an all-volunteer team.

"There's a kinship among the aviation and amateur radio communities," Inderbitzen said. "In addition to introducing newcomers to ham radio, we expect to meet hundreds of ham-pilots at AirVenture. This is a great opportunity to show off ham radio at such a large-scale event." Frederick Hart, AA0JK, and Bob Inderbitzen, NQ1R, wrote "Growing Amateur Radio, One Pilot at a Time," in the January 2019 issue of *QST*, describing some of the opportunities and experiences pursued by pilots who become active ham radio operators.

At KidVenture, a highlight for children attending AirVenture, kids can build and take home a radio receiver to listen to air traffic and other nearby transmissions from approximately 65 - 140 MHz. The kit, designed by student engineer Levi Zima, KN4YHS, with additional support from his sister, Kirsten Zima, KC9RWG, has been an ARRL offering since 2021 (see [ARRL's Introduction to Radio Receiver Kit](#)). "It's great fun to see children at AirVenture walking around with the radio kits they've built and tuning in to the busy Air Traffic Control Tower throughout the event," said Inderbitzen. "Radio communications is a key part of learning about avionics. ARRL is grateful to EAA AirVenture for sponsoring the activity, which promises to introduce a lot of young people to radio."

Children attending KidVenture at 2022 AirVenture will be able to build a simple radio receiver kit, encouraging their discovery of



Courtesy of the ARRL Newsletter

Hams on SOTA Event Help Prevent Major Forest Fire

While participating in the Black Hills Amateur Radio Club's (ARC) annual Summits on the Air (SOTA) event in South Dakota on July 16, 2022, two amateur radio operators helped spot a potential forest fire.

Ryan Lindblom, KE0LXT, President of the Black Hills ARC, and Christopher Jaques, KD0RAS, had made their trek to Cicero Peak. Just before heading back down, they noticed what might be smoke or dust to the south near Hot Springs. Lindblom made a contact on their simplex frequency to ask a local amateur radio operator if there had been any reports of Forest Service activity in the area.

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An off-duty ranger was monitoring a local ham repeater from his home, heard traffic from Cicero Peak, and called in the alert. A fire crew and a helicopter were able to contain a small fire 2.5 miles south of Pringle, South Dakota.

Ward Hall, WC0Y, attending the Black Hills SOTA weekend for his second year, reported that a forest ranger on Bear Mountain stepped out of the ranger tower to greet him, but at the time, was busy monitoring firefighting traffic.

"I could hear the radio activity while I was on the ground near the tower," said Hall. "The ranger later told me that the Forest Service was alerted to a small fire when an off-duty ranger was monitoring a local ham repeater and heard the traffic from Cicero Peak." Hall said the ranger credited the ham activity for an early alert that allowed them to address the fire while it was small. "He was very appreciative of how the ham activity helped them and asked that I pass it on," Hall added.

ARRL Dakota Division Director Bill Lippert, AC0W, applauded the work of the amateur radio operators for early reporting of what could have been a major fire, as well as credited the Forest Service for their quick response.

The Black Hills Amateur Radio Club had 12 people participating in their Black Hills SOTA weekend. The club has 75 members and covers the Black Hills region of South Dakota, which is in the southwest corner of the state. They are headquartered in Rapid City, South Dakota, and they are an ARRL Affiliated Club.

Courtesy of the ARRL Newsletter

QSO Today Virtual Ham Expo

The **QSO Today Virtual Ham Expo** returns to your computer screen or smartphone on **September 17th and 18th, 2022**. This full featured virtual ham radio convention includes: superior speakers and presentations; fully interactive video lounges for real eyeball QSOs; an exhibit hall full of our favorite vendors and organizations; and now a new poster gallery hall that includes a product showcase and interactive projects submitted by amateurs.

"The **Kumospace lounges** were a fantastic edition to the Expo last March and were full of hams and conversation during the entire Expo weekend", said Eric Guth, 4Z1UG, the founder of the QSO Today Virtual Ham Expo. "Kumospace has



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added some new enhancements that will create intimate audio spaces for private and semi-private conversations in our lounges. We know this will be a winner with everyone who comes to the Expo.”

The Expo will feature a new **Poster Gallery** that will include: a **Product Showcase** as a way for vendors who may or may not have a booth to demonstrate individual products through videos; white papers; and slides. Each showcase is fully interactive through text chat and can be use as a source of sales lead reports after the Expo.

The Poster Gallery will also include an opportunity for individuals to submit papers, projects, and articles to be enjoyed by Expo delegates. Accepted gallery submission will include a free ticket to the expo.

The vFairs and Kumospace technologies are **now supported by apps for Apple and Android**. Expo personnel still recommend a fast internet connection and big screens for the best user experience.

While the QSO Today Virtual Ham Expo was originally created in August 2020 to replace all of the canceled ham radio conventions due to the Covid19 Pandemic, it has evolved into one of the most important resources for amateur radio learning through peer submitted presentations on every amateur radio subject, lively discussion, and opportunities to extend ham radio learning.

Sponsor and exhibitor opportunities are still available. The \$10.00 ticket for the Expo will go on sale in August. Anyone can attend the Expo from anywhere in the World, over the internet, without significant cost, travel inconvenience, and potential exposure to pathogens. This makes the QSO Today Virtual Ham Expo the best amateur radio value.

For more information go to : <https://qsotodayhamexpo.com>

For more information, contact:

Brad Grob

brad@qsotoday.com

Courtesy of the ARRL Newsletter

The 2021 ARRL Technical Innovation Award honors Wojciech Kaczmariski, SP5WWP, for developing a new digital radio communication protocol, M17, for the good of amateur radio.

M17 is a new open-source and patent-free digital radio protocol with a goal to provide a fully sustainable option for digital radios in the future. ARRL member Ed Wilson, N2XDD, the Community Manager of the M17 Project, accepted the 2021 Technical Innovation Award plaque on behalf of Kaczmariski when Wilson visited ARRL Headquarters on Tuesday, July 12, 2022. The award plaque is being shipped to Kaczmariski in Poland. The efforts of Kaczmariski and other M17 community team members have led to the development of DroidStar, an Android application by Doug McLain, AD8DP. The protocol has also been incorporated within other amateur radio-related projects to help advance the radio art.

Courtesy of the ARRL Newsletter

2022 Contest Calendar

August

6-7 [222 MHz and Up Distance Contest](#)

1800 UTC Saturday and ending at 1759 UTC Sunday

6-7 [North American QSO Party, CW](#)

1800Z, Aug 6 to 0559Z, Aug 7

20-21 [10 GHz & Up – Round 1](#)

6:00 AM local Saturday though 12:00 midnight local Sunday

20-21 [North American QSO Party, SSB](#)

1800Z, Aug 20 to 0559Z, Aug 21

21 [Rookie Roundup – RTTY](#)

1800 to 2359 UTC

September

10-12 [September VHF](#)

1800 UTC Saturday, ends 0259 UTC Monday

QSO Parties

Maryland-DC 1400Z, Aug 13 to 0400Z, Aug 14

Hawaii 0400Z, Aug 27 to 0400Z, Aug 29

Kansas 1400Z, Aug 27 to 0200Z, Aug 28 and 1400Z-2000Z, Aug 28

Ohio 1600Z, Aug 27 to 0400Z, Aug 28

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 ➤ 2022

August 6

[Reading Radio Club Hamfest](#)

Heritage Park

992 Clematis St. Sinking Spring, PA

<http://www.qsl.net/w3bn/>

August 14

[Valley Forge Hamfest](#)

Kimberton Fire Company Fairgrounds

762 Pike Springs Rd. Phoenixville, PA 19460

<http://marc-radio.org/hamfest2.htm>

September 11

[ARRL Southern New Jersey Section Convention](#)

Gloucester County 4H Fairgrounds

235 Bridgeton Pike (Rt 77) Mullica Hill, NJ 08062

<http://www.w2mmd.org/>

September 17

[Hagerstown Tailgate Fest](#)

Maugansville Bible Brethren Church

17904 Binkley Ave. Maugansville, MD 21767

<https://w3cwc.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."

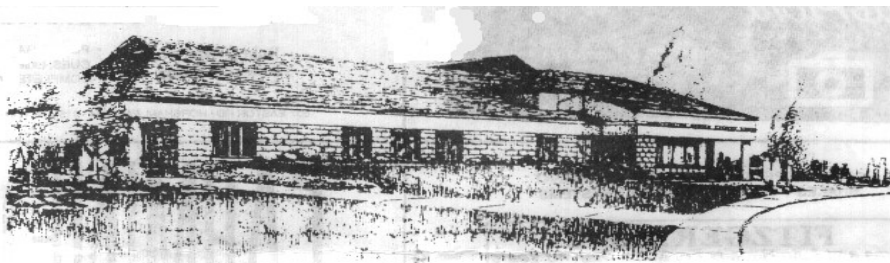
ATTENTION MEMBERS

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

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:

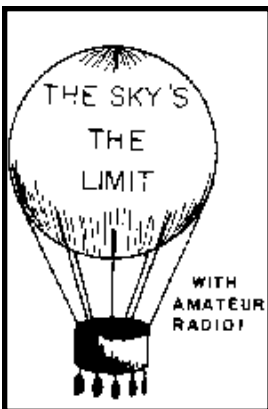
<https://www.weather.gov/phi/Info>

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 Buegers
- 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	Ken Lichtenstein	K9KJL	847-697-1188
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			