



FEEDBACK



Web Site k3dn.org

Warminster Amateur Radio Club

February 2021

Next Meeting Feb. 4th via ZOOM - Grounding and Bonding Your Station/Tim Duffy K3LR

President's Message

As we get rolling into the new year, things are holding fairly steady as far as the pandemic and restrictions are concerned. As a club, we've had several members directly impacted, and to them we extend our sympathy and well-wishes; thankfully, many of our members have managed to avoid major issues related to the situation, and WARC is still able to conduct business as normally as allowable.

The ability to forecast future in-person events remains murky, and there's no clear picture as to what to expect in a few weeks, let alone a few months. Given those realities, and the need to make a decision several months prior to the actual event, the Board has voted to cancel the 2021 Hamfest. With Bucks County Community College (our host site) maintaining their current policies curtailing outside access to their facilities, and no way to estimate the number of attendees – or even the allowable conditions in PA four months from now – we felt it was prudent socially, as well as fiscally, to once again postpone the event. We hope that 2022 sees a loosening of the reins on public gatherings and that we can all freely assemble at that time.

On the air, band conditions are starting to perk up as Cycle 25 begins to gather some steam. Some days are better than others, but we are in the infancy of this cycle, so there's plenty of room for improvement. Getting on the air and tossing out a "CQ" on an otherwise dead band is a great way to surprise yourself as to how quirky propagation can be!

Speaking of propagation, and since we're all spending more time indoors these days (and the fact that I've finally re-established an HF station at my QTH!), I have decided to take part in the True Blue DXers Club Marathon for 2021. This is a year-long event designed to increase on-air activity in the "traditional modes": CW & SSB. The format is essentially the same as the CQWW contests, with number of QSO's, DXCC entities, and CQ Zones as the point counters; this also lends itself well to using your preferred contest logging program (N3FJP, N1MM, etc.) to keep your score. You must choose a single mode for your entry (CW or SSB, no Mixed), however you may keep separate logs for each mode and enter both, if you're so inclined! More info on this initiative can be found on the TBDXC website, under "Marathon": <https://www.tbdxc.net/marathon>.

Well, that'll wrap it up for this month. I hope you all stay healthy and safe, and I hope to catch you all on the air!

Tony W3FLH
73

Warminster ARC General Meeting Minutes

January 7, 2021

Attendance:

Call to Order

Minutes from last Meeting

Additions/Corrections - Motion made and approved the November minutes as printed in Feedback

Committee Reports

Treasurer's Report: *Herb KB3VMN*

As reported at the meeting

Programs: *Tony N3YNH*

February – DX Engineering – Grounding and Bonding Your Station/Tim Duffy K3LR

March – Home Brew Night

April - TBD

(Continued from page 1)

Membership: *Kathy KC3FBY*

We have 117 active and paid members

Welcome new members:

Wayne Campbell, N3DRV

Michael Bondiskey, KC3QLU

Public Service: *George N3HBT*

Nothing scheduled at this time

Will contact Karen in the next month – possibly the golf outing in June

Classes: *George KA3WXY*

Next classes: TBD

VEC Testing: *Larry WA3ELQ*

Cancelled November and December sessions

Next session could possibly be January 25 but will probably cancel this session.

Temporarily change the format to appointment versus walking, to keep the numbers at a comfortable level given COVID restrictions.

Repeater: *Brian N3EXA*

Glitch last Wednesday with interference on 440 but everything else is working properly.

Good and Welfare: *Ken K9KJL*

Nothing requested or sent out this past month. Send requests to either Ken or Tony

Other Committees

Radiosport: *Irwin KD3TB – we are in contesting season.*

Past weekend was ARRL RTTY contest this past weekend

ARRL NA QSO party CW – Saturday to Sunday

ARRL NA QSO party SSB – Saturday to Sunday

January 16 – VHF

CQ160 meter contest at the end of the month

ARRL Winter Field Day the last weekend in January

Hamfest: *Tony W3FLH*

We have decided to postpone your 2021 Hamfest again this year. The college is maintaining policies of no outside activities can be scheduled. The board discussed many options but felt that cancelling the in-person event is the best option at this point.

Thinking about a tailgate style something in the fall

Field Day: **Doc W3GAD**

We need a Field Day chair. Still up in the air at this point. We will need to hear from ARRL to see what they decide.

Old Business

Elmer Program – Online/Zoom? – exploring an online Zoom scenario that will work for everyone.

Club Station: Interest/Activity? (Marty NR3Z & Andy KD3RF) – nothing to report – tabled until we can start thinking about getting back into the senior center

FCC fee increases for Amateur Radio/R&O – proposed a \$50 fee after a mass letter writing campaign the new fees will be \$35 for license renewal, vanity call signs, and upgrading your license. Now is the time to renew your license and/or upgrade.

Do not know when the new dates will go into effect. FCC is requiring email addresses on your account. Make sure to update your account online.

New Business

Director/Appointed for 2021 – 2 members applied and neither one was ratified so we still have an open position. Please contact Tony W3FLH if you are interested.

Annual Club Auction/Online (Andy KD3RF) – format similar like the silent auction in March or April. Stay tuned for more information. Start gathering your items.

Motion to Adjourn at 8:22pm

Presentation: *Stump the Chumps, online version (Andy KD3RF & Irwin KD3TB)*

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FOR SALE

Drake TR-4C, RV-4C, AC-4 with Harbach modes by WB4HFN, Drake desk mic 7075, original Drake manual for TR-4C, a few spare Drake parts. All in excellent electrical and physical condition. New matched finals replaced a few years ago. No issues. Great back up set-up or set up for new ham.

ASKING: \$495 with local pick-up at my home or nearby local to be discussed.

Contact Bob Wilderman a WARC member at dlrwild1@verizon.net or 267-535-9189 cell

K3SRO

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QSO Today Virtual Ham Expo January 21, 2021 Update

The March 13-14 2021 QSO Today Virtual Ham Expo is in full planning mode with many exciting new things underway for the upcoming event. In addition to the world-class line-up of 60+ speakers and workshops (for a complete list and early bird registration go to www.qsotodayhamexpo.com), the Expo team is proud to announce an entire speaker track dedicated to the amazing world of AMSAT - the worldwide group of amateur radio operators who share an active interest in building, launching and then communicating with each other through non-commercial amateur radio satellites. To date, over 70 amateur radio satellites have been launched. At the Expo, there will be 9 sessions by AMSAT experts who will discuss everything you need to know about taking advantage of this satellite network. These include:

- Introduction to Amateur Radio Satellites (Douglas Quagliana, KA2UPW)
- Getting On the Air with Satellites (Bradford Clint, K6LCS)
- How to Enjoy Amateur Radio Contacts With the International Space Station (Frank Bauer, KA3HDO)
- Implementation of LDPC Encoder on FPGA (Anshul Makkar)
- Debris Mitigation in Earth's Orbit (Anshul Makkar)
- Digital Multiplexing Transponder from the Open Research Institute (Michelle Thompson, W5NYV)
- Solving the ITAR and EAR Problem for the Amateur Radio Satellite Service (Michelle Thompson, W5NYV)
- Remote Labs for P4XT Engineering Development (Paul Williamson, KB5MU)

In addition to the speaker track, AMSAT will have a booth at the Expo where attendees can talk to experts, enthusiasts, operators and technicians about this very cool technology. Booth visitors can also get contact and membership information for the thirty member AMSAT societies around the world.

Michelle Thompson, W5NYV, an AMSAT Director, said that "operating within the Amateur Radio Satellite Service is one of the most rewarding privileges of holding an amateur radio license. There has never been a better time to be involved in amateur radio satellites since some long-standing regulatory burdens have been lifted and advanced technology has never been more affordable and accessible. We have opportunities now that were not available as of even a few years ago. AMSAT is fortunate to contribute to the Expo by showcasing the truly amazing work going on around the world in the amateur satellite scene. And the Expo is an ideal partner to show it off to the wider ham audience."

Said Eric Guth, 4Z1UG, QSO Today host, "AMSAT is making a major contribution to the upcoming Expo by helping our attendees to learn about this exciting technology, new developments, and how they can apply it to their everyday activities. These presentations will range from beginner to expert - so there will be something for everyone interested in space communications at the Expo."

Anyone can attend the QSO Today Virtual Ham Radio Expo from their home or office. Early Bird Tickets are just \$10 (to help cover the cost of this event, \$12.50 at the "door") and include entry for the Live 2 day period as well as the 30-day on-demand pe-

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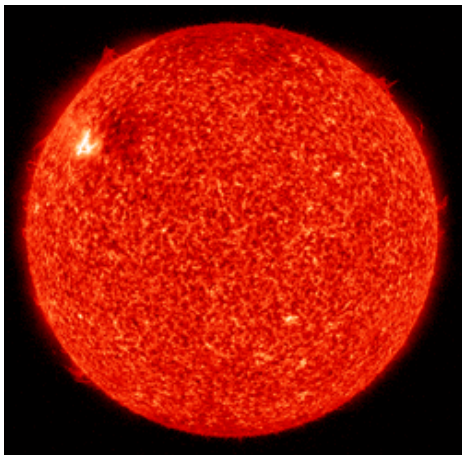
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riod). Registration can be found at www.qsotodayhamexpo.com.

ARRL, the national association for Amateur Radio® in the United States, is a QSO Today Expo Partner. FlexRadio is the Expo's Platinum Sponsor, and Gold sponsors as of this time include Elecraft, RFinder, and Connect Systems.

For more information, go to www.qsotodayhamexpo.com

The K7RA Solar Update



Tad Cook, K7RA, Seattle, reports: Solar activity increased this week. We saw no spotless days, and the average daily sunspot number rose from 14.7 to 28.1. Average daily solar flux was up from 76.1 to 77.2.

Average daily planetary A index rose from 4 to 9.4, due to a minor geomagnetic storm on Monday. On that day Alaska's High Latitude College A Index was 33.

Predicted solar flux for the next 30 days is 76, 75, 74, and 74 on January 29 – February 1; 72, 70, 70, and 72 on February 2 – 5; 76 on February 6 – 10; 77 on February 11 – 20; 76 on February 21 – 2, and 75 on February 25 – 27.

Predicted planetary A index is 5, 5, and 8 on January 29 – 31; 18, 12, and 8 on February 1 – 3; 5 on February 4 – 6; 10 on February 7 – 8; 5 on February 9 – 19; 8, 12, and 12 on February 20 – 22, and 5 on February 23 – 27.

Even after a nice stretch of days with sunspots, the 10.7-centimeter solar flux seems weak. Last week and this week we reported average daily solar flux of 73.8 and 78.6. But toward the end of 2020, the three bulletins reporting data from November 19 – December

9 had average daily solar flux at 90.1, 108.1, and 91.9.

On Thursday Spaceweather.com reported a sunspot number of 26 and showed an image of two active regions on the sun, 2800 and 2797, but NOAA SESC [showed](#) a sunspot number of zero for the same day. The NOAA SESC file is the only source used for sunspot numbers reported in this report.

Here's the geomagnetic activity forecast for the period January 29 – February 24 from F.K Janda, OK1HH.

The geomagnetic field will be:

- quiet on January 29 – 31, February 4, 10, (24)
- quiet to unsettled on February 5 – 6, 9 – 13, 17, 19
- quiet to active on February 1, 3, 7, 14 – 16, 18, 20, 22 – 23
- unsettled to active February (2, 8, 21)
- active to disturbed none predicted
- Solar wind will intensify on January (31,) February (1,) 2 – 3, (4, 8 – 10, 15 – 17, 20 – 21,) 22 – 24, (25)

Parenthesis means lower probability of activity enhancement. The predictability of changes remains low, as indicators are ambiguous.

We ran across this *Universe Today* [article](#) about tree rings as an indicator of historical solar activity.

This weekend is the CW portion of the [CQ 160-Meter Contest](#). Geomagnetic activity is quite low, which is a favorable indication for 160 meters.

Imagine, if you will, the worst possible solar flare, maybe worse than the infamous Carrington Event, the one that made aurora visible all the way down to the equator and set fire to telegraph offices. Some smart people have done just that. Try not to scare yourself while reading this [article](#) from the American Geophysical Union.

Courtesy of the ARRL Newsletter

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President Biden Taps Commissioner Jessica Rosenworcel as Acting FCC Chair

This week, President Joseph Biden designated FCC Commissioner Jessica Rosenworcel as acting chair of the FCC. She succeeds, at least temporarily, former FCC chair Ajit Pai, who resigned effective on January 20.



"I am honored to be designated as the Acting Chairwoman of the Federal Communications Commission by President Biden," Rosenworcel said in a statement. "I thank the President for the opportunity to lead an agency with such a vital mission and talented staff. It is a privilege to serve the American people and work on their behalf to expand the reach of communications opportunity in the digital age."

Prior to joining the FCC, she served as Senior Communications Counsel for the United States Senate Committee on Commerce, Science, and Transportation. Before entering public service, she practiced communications law in Washington, DC.

The newest FCC commissioner, Nathan Simington, a Republican appointee, said Rosenworcel "brings deep knowledge and experience and highly informed judgment to her new position." He expressed appreciation that the Biden Administration acted promptly to establish FCC leadership by "selecting such a distinguished public servant for this vital role."

Fellow Democrat Geoffrey Starks said Rosenworcel "has been a passionate advocate for bringing the benefits of broadband to all Americans -- particularly our children." He said her designation as acting chair "comes at a critical juncture for the Commission, as COVID-19 has made bold action to end internet inequality more vital than ever."

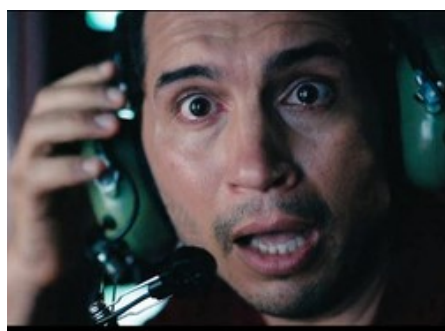
The Commission's other Democratic appointee, Brendan Carr, called Rosenworcel "a talented and dedicated public servant, as evidenced by her 8 years of distinguished service on the FCC."

Rosenworcel has also been appointed as [Defense Commissioner](#). Among other duties and responsibilities, the Defense Commissioner represents the FCC in interagency matters pertaining to public safety, homeland security, national security, emergency preparedness, disaster management, and defense and related matters, including those pertaining to continuity of essential FCC functions under emergency conditions.

Courtesy of the ARRL Newsletter



Ham Radio's SuitSat Returns in Short Horror Film



SuitSat makes an appearance in a new [video short](#) sci-fi thriller, called *Decommissioned*. "Inspired by true events," the video short resurrects the 2006 spacesuit/satellite that transmitted messages on 2 meters as it circled Earth. The original SuitSat-1 project, conceived by an Amateur Radio on the International Space Station ([ARRL](#)) team, repurposed a decommissioned Russian Orlan spacesuit to function as a free-floating amateur radio transmit-only satellite.

"ARRL designed and built an antenna and radio gear that got approved for installation into the suit, and cosmonaut Valeri Tokarev and Commander Bill McArthur, KC5ACR, put SuitSat-1 into orbit at the start of a spacewalk," ARRL-US Delegate for ARRL Rosalie White, K1STO, recounted.

SuitSat-1 transmitted a voice message, "This is SuitSat-1 RS0RS!" in several languages, plus telemetry and a slow-scan TV image on an 8-minute cycle as it orbited Earth.

In the 6-minute film, a SuitSat returns in the future to haunt International Space Station Commander Diaz, played by Joey Vieira. Diaz is seen taking photos from inside an observation dome on the ISS when he spies some distant space debris and radios Houston to express concern.

"If there was any cause for alarm, you know we'd see it too," Houston assures him.



As the object closes in, an increasingly anxious Diaz recognizes the "debris" as SuitSat. "This is SuitSat," comes a voice on the

ham radio.

"Houston, you're not gonna believe this. We're picking up transmissions on the ham radio that sound identical to the SuitSat experiment," he tells a skeptical mission control. "It's SuitSat! I'm seeing SuitSat!"

"SuitSat re-entered the atmosphere and burned up years ago," mission control responds. "It's impossible."

Decommissioned was produced by Perception Pictures and directed by Australian filmmaker Josh Tanner. He [told](#) Gizmodo that he produced the video "using the *Unreal Engine* technology that *The Mandalorian* used, albeit old-school rear projection, as opposed to the fancy LED wall tech they used."



The real SuitSat in 2006. [NASA, photo]

groups.

Courtesy of the ARRL Newsletter

A [short video](#) shows how *Decommissioned* was made.

SuitSat-1 -- called *Radioskaf* or Radio Sputnik in Russian -- was so successful that another unneeded Orland spacesuit was subsequently refitted as SuitSat-2.

As an interesting sidebar with respect to the real SuitSat, White explained, "After the ARISS engineers calculated SuitSat-1's orbit and spin characteristics, they knew the legs and arms would have to be filled with something, so they asked the crew to stuff dirty laundry inside."

The original SuitSats were deorbited to burn up in Earth's atmosphere after their useful lives ended.

ARRL is a partner in the ARISS program, which has kept amateur radio on the air from the International Space Station for 20 years. A hallmark of the ARISS program is the scheduled ham radio contacts between ISS crew members and earthbound schools and student

FCC to Require Email Address on Applications Starting on June 29, 2021

Effective on June 29, 2021, amateur radio licensees and candidates must provide the FCC with an email address on all applications. If no email address is included, the FCC may dismiss the application as "defective."

On September 16, the FCC adopted a *Report and Order* ([R&O](#)) in WT Docket 19-212 on "Completing the Transition to Electronic Filing, Licenses and Authorizations, and Correspondence in the Wireless Radio Services." The *R&O* was [published](#) on December 29 in the *Federal Register*. The FCC has already begun strongly encouraging applicants to provide an email address. Once an email address is provided, the FCC will email a link to an official electronic copy of the license grant. An official copy will also be available at any time by accessing the licensee's password-protected Universal Licensing System (ULS) account.

Licensees can log into the ULS [License Manager System](#) with their FRN and password at any time and update anything in their FCC license record, including adding an email address. For questions or password issues, call the CORES/FRN Help Line, (877) 480-3201 (Monday – Friday, 1300 – 2300 UTC) or [reset the password](#) on the FCC website.

The only way to refrain from providing an email address on an application would be to submit a request to waive the new rule, providing justification for the request. (The FCC would not be obliged to grant such a request.)

Under Section 97.21 of the new rules, a person holding a valid amateur radio station license "must apply to the FCC for a modification of the license grant as necessary to show the correct mailing and email address, licensee name, club name, license trustee name, or license custodian name." For a club or military recreation station license, the application must be presented in document form to a club station call sign administrator who must submit the information to the FCC in an electronic batch file.

Under new Section 97.23, each license must show the grantee's correct name, mailing address, and email address. "The email address must be an address where the grantee can receive electronic correspondence," the amended rule will state. "Revocation of the station license or suspension of the operator license may result when correspondence from the FCC is returned as undeliverable because the grantee failed to provide the correct email address."

Courtesy of the ARRL Newsletter

Radio Amateur is Co-Leader of Just-Published Blood Plasma Research Study



Scott Wright, K0MD -- a well-known amateur radio contester and past editor of the *National Contest Journal (NCJ)* -- was a co-principal investigator of a research project into the use of convalescent plasma to treat COVID-19 patients. The study, *Convalescent Plasma Antibody Levels and the Risk of Death from COVID-19*, appeared in the January 13 edition of the prestigious *New England Journal of Medicine (NEJM)*.

The study began early last April under the co-leadership of Wright and Dr. Michael Joyner, MD, both of the Mayo Clinic; Dr. Peter Marks, MD, PhD, Dr. Nicole Verdun, MD, of the US Food and Drug Administration, and Dr. Arturo Casadevall, MD, PhD, of Johns Hopkins University. Dr. Marks is AB3XC. The Mayo Clinic was the lead institution for the program. Initially heading up one segment of the study, the Mayo Clinic asked him to formally step in as co-principal investigator and to assume the forward face with the media.

"We report a 6.3% absolute reduction in mortality for those who received high-titer convalescent plasma, and a 36% relative risk reduction in mortality for those who received it while not on a ventilator," Wright summarized briefly. "We are hopeful it will have an impact globally where more advanced -- and expensive -- therapies may not be available."

The US Convalescent Plasma Expanded Access Program was a collaborative project between the US government and the Mayo Clinic to provide access to convalescent plasma for patients in the US who were hospitalized with COVID-19. The government-supported study collected and provided blood plasma recovered from COVID-19 patients containing antibodies that, it was theorized, could help these individuals fight the disease.

Wright said that in contrast with most studies, the investigators designed and carried out the research without help from National Institutes of Health (NIH). "It was an enormous project, not to mention that over 105,000 people enrolled in the study," Wright said. "The *NEJM* paper is a subset analysis of 3,000 or so subjects. We did a lot of innovative things with the FDA's permission to make this a study that quickly enrolled patients, physicians, and hospitals."

Wright said the study participants cooperated with all but five hospital systems in the US and had sites in all US territories overseas and military facilities. "Our physicians locally at the sites enrolled twice as many minority subjects as any randomized clinical trial ever," Wright said, and we had about half men and half women as subjects -- something most trials struggle with."

The study has attracted some media attention. Wright was interviewed by NBC News. "We were happy to have some media interest, especially given the other news in Washington, DC, that overshadows this naturally," he said. "It is just a great feeling to have it published and peer reviewed."

WSJT-X 2.4.0 to Introduce New Digital Protocol Q65

WSJT-X version 2.4.0 will introduce a new digital protocol called Q65, which, according to the [Quick Start Guide](#), is designed for "minimal two-way QSOs over especially difficult propagation paths." The *Guide* said, "On paths with Doppler spread more than a few hertz, the weak-signal performance of Q65 is the best among all *WSJT-X* modes. Q65 is particularly effective for tropospheric scatter, ionospheric scatter, and EME on VHF and higher bands, as well as other types of fast-fading signals."

The new protocol uses 65-tone frequency-shift keying and builds on the demonstrated weak-signal strengths of QRA64, introduced in 2016. User messages and sequencing are identical to those in FT4, FT8, FST4, and MSK144. Q65 employs a "unique tone" to sync time and frequency. "As with JT65, this 'sync tone' is readily visible on the waterfall spectral display," the *Guide* said.

"Unlike JT65, synchronization and decoding are effective even when meteor pings or other short signal enhancements are present. Transmit/receive sequence lengths of 15, 30, 60, 120, and 300 seconds are available. According to the *Guide*, "Q65 will enable stations with a modest Yagi and 100 W or more and to work one another on 6 meters at distances up to ~1,600 kilometers at most times, in dead-band conditions."



2021 Contest Calendar

February

8-12 [School Club Roundup](#)

1300 UTC Monday through 2359 UTC Friday

20-21 [International DX – CW](#)

0000 UTC Saturday and runs through 2359 UTC Sunday.

March

6-7 [International DX– Phone](#)

0000 UTC Saturday and runs through 2359 UTC Sunday.

April

18 [Rookie Roundup – Phone](#)

1800 to 2359 UTC

QSO Parties

Vermont 0000Z, Feb 6 to 2400Z, Feb 7

Minnesota 1400Z-2400Z, Feb 6

South Carolina 1500Z, Feb 27 to 0159Z, Feb 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 2021 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 ➤ 2021

June 20

[Father's Day Hamfest at Arcadia](#)

Arcadia Fairgrounds

16920 Carnival Ave.

Upperco, MD 21155

<http://W3FT.com> Facebook Baltimore Amateur Radio Club

July 4

[Murgas ARC Hamfest and Computerfest](#)

Polish American Veterans Club

2 South Oak Street

Plains, PA

<http://hamfest.murgasarc.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

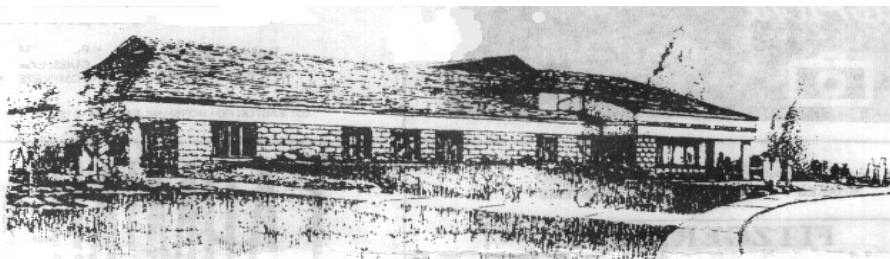
The Membership Committee can provide Club badges. Two types are available: an engraved plastic callsign and name badge for \$8 or a free, laminated plastic, photo ID badge/card. The photo id badge is included with your membership. Pictures for the club badge will be taken before club meetings on even 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 2020 - 2021

February 4 Bonding and Grounding (K3LR tentative)
March 4 Home Brew

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)**

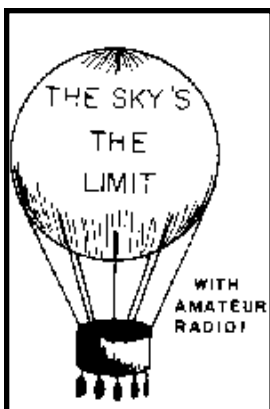
Fairless Hills, PA (many remote access locations throughout Bucks County)

Mount Holly NWSFO SKYWARN Homepage:

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

SKYWARN Basic Weather Spotter Educational Programs URL:

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



*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.

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.

➤ 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

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

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: \$ 20.00
2nd FamilyMember: \$ 10.00
Student: \$ 10.00
Alumni: \$ 10.00

- Are your dues current ?

2021 Officers

Executive Officers

President	Tony Cuttone	W3FLH	267-679-9297
Vice-President	Tony Simek	N3YNH	
Secretary	Kathy Acker	KC3FBY	215-815-7978
Treasurer	Herb Hickmott	KB3VMN	267-718-3601
Director (A)	Doug Becker	KC3MNQ	
Director (E)	Larry Abbott	WA3ELQ	215-704-3282
Director (A)	Brandon Penglase	N3UO	215-259-7255
Director (E)	George Brechmann	N3HBT	215-443-5656
Past President	Marty Squicciarini	NR3Z	215-872-9644

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	George Altemus	KA3WXV	215-855-3856
Digital and APRS	Ron Wenig	NY3J	215-638-9257
Feedback Editor	Jim Elmore	WA4YWM	215-538-1889
Field Day 21	Doc Whitticar	W3GAD	215-968-6397
Hamfest 21	Michael Shanblatt	W3MAS	267-491-5773
Hamfest 21	Tony Cuttone	W3FLH	267-679-9297
Hamwear	Kathy Acker	KC3FBY	215-815-7978
Holiday Dinner	George Brechmann	N3HBT	215-443-5656
Membership	Mary Miles	KC3KJZ	267-625-8538
Net Manager	George Brechmann	N3HBT	215-443-5656
Publicity	Bernice Kraut	KB3PCX	215-884-8195
Refreshments	Brandon Penglase	N3UO	215-259-7255
RF Interference	Andy Vavra	KD3RF	610-287-3295
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 Konschak	WI3Z	215-491-9941
Youth Programs	Steve Larson	WW3Y	215-822-1511