



Welcome, croci!

The Aero Aerial

The Newsletter of the Aero Amateur Radio Club
 Middle River, MD
 Volume 14, Issue 3
 March 2018

Editor Georgeann Vleck KB3PGN

Officers

President	Joe Miko WB3FMT
Vice-President	Jerry Cimildora N3VBJ
Recording Secretary	Lou Kordek AB3QK
Corresponding Secretary	Pat Stone AC3F
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Resource Coordinator	Ron Distler W3JEH

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VE Testing	Pat Stone AC3F
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Webmaster, Facebook	Jerry Cimildora N3VBJ
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Club Nets	Joe Miko WB3FMT
Contests	Bob Venanzi ND3D Charles Whittaker KB3EK

Website: <http://w3pga.org>

Facebook: <https://www.facebook.com/pages/Aero-Amateur-Radio-Club/719248141439348>

About the Aero Amateur Radio Club

Meetings

The Aero Amateur Radio Club meets at 7:30 pm on the first and third Wednesdays of the month at Essex SkyPark, 1401 Diffendall Road, Essex. Meetings begin at 7:30 p.m. local time. Meetings are canceled if Baltimore County Public Schools are closed or dismiss early.

Repeaters

W3PGA 2 M: INPUT : 147.84 MHz, OUTPUT : 147.24 MHz, PL 123.0
W3PGA 70 Cm: INPUT : 444.575 MHz, OUTPUT : 449.575 MHz, PL123.0
W3JEH 1.25 M: INPUT : 222.24 MHz, OUTPUT : 223.84 MHz

Club Nets

Second Wednesday Net – 10 Meters (28.445 MHz) @ 8 p.m. Local Time
Fourth Wednesday Net – 2 Meters (147.24 MHz Repeater) @ 8 p.m. Local Time
Fifth Wednesday Net – 70 Centimeters (449.575 MHz Repeater) @ 8 p.m. Local Time

Radio License Exams

The Aero Amateur Radio Club sponsors Amateur Radio License Exams with the ARRL VEC. Examination sessions are throughout the year. Walk-ins are welcome; arrive no later than 30 minutes after start time. \$15 charge.

2017-18 Examination Schedule

Time:	1:15 pm		
Dates:	Sunday, Mar. 11		
Where:	White Marsh Library		

White Marsh Library, 8133 Sandpiper Circle, White Marsh, MD

Contact: Patricia Stone AC3F, email: ac3f@juno.com, landline: 410-687-7209

LOCAL AREA NETS

Day	Time	Freq. (MHz)	Net Name
Daily	9 – 10 am	145.330	Oriole Net
Daily	6 pm	3.820	Maryland Emergency Phone Net
Daily	6:30 – 7 pm	145.330 no PL	Balto. Traffic Net (b/u 146.670 PL 107.2)
Daily	7 pm & 10 pm	3.643	MD/DC/DE Traffic Net
2 nd Tue	7:30 pm	146.670	Baltimore County RACES Net
2 nd Wed	8 pm	28.445	Aero ARC Net
4 th Wed	8 pm	147.240	Aero ARC Net
5 th Wed	8 pm	449.575	Aero ARC Net
Fridays	7:30 pm	145.330	Back in the Day Net
When activated by NOAA		147.030	SkyWarn (primary)

NET REPORTS

2-7-18: Snow/WX net, 147.240, 20:00 to 21:25 local

The net was held because Baltimore County Schools were closed for the day.

W3PGA NCS Joe Essex, KB3JVP Ken Middle River, K3TEL Arnold Towson, N3VBJ Jerry Towson, K3DON Don Joppatowne, KC3IPK Dave Perry Hall, KB3QWC Larry Middle River, W3JEH Ron Perry Hall, W3VRD Phil Essex, KC3FRH Charles Baltimore, W1ASA Israel Baltimore, KC3FBL Jim Parkville, KC3FBM Franklin Parkville, AC3F Pat Middle River, KB3VAE Rich Middle River, KC3HZU William Edgewood, AB3PP Calvin Towson, WA3QLY Tom Edgewood, WA3FSE Don Baltimore City, KC3CMS Dan Baltimore City

This was the longest running net to date. There were a total of 20 people on the net, also the largest number to be on the club's net.

2-28-18: 147.240, 20:00 to 20:27 local.

W3PGA NCS Joe Essex, KC3FBM Franklin Parkville, WA3QLY Thomas Edgewood, W3JEH Ron Perry Hall, KC3FBL Jim Parkville, KC3FRH Charles Parkville, K3TEL Arnold Towson, KB3VAE Richard Middle River

8 Aero members on the net.

Upcoming Second Meeting Presentations

<i>Date</i>	<i>Topic</i>	<i>Presenter</i>
TBA	Contest Logging with N1MM	Bob ND3D
TBA	The Acu-rite Weather Station	?Kelly KC3APF

These presentations will be given at the Essex SkyPark FBO building after the business meeting.

Any questions call Joe Miko at 443-956-0197. Presenters who wish to submit a description of their talk may email it to Georgeann at KB3PGN@reagan.com for inclusion in the Aerial.



VE CORNER

by Pat Stone, AC3F

Our next test session for 2018 will be held at 1:15PM on Sunday, March 11 , at the White Marsh Library. Hope to see you then.

Reminder: VE Testing Snow Plan

If Baltimore County Libraries are closed for a testing day (Saturday or Sunday) the VE Testing session for that day will be canceled. Testing applicants that have pre-registered will be notified by phone. Due to the scheduling requirements of Baltimore County Library, we can't schedule a makeup session. Testing will resume on the next scheduled testing date. VE's will be notified by phone in the event of a closure.

UPCOMING HAMFESTS and EVENTS

Public Service Opportunity

Sunday, June 3, 2018: 2018 Tour de Cure: Maryland

Location: Goucher College, 1021 Dulaney Valley Rd, Baltimore, MD 21204

The Aero Club will again provide communications for this event. Joe figures we will need about 15 volunteers.

Events: Ride: 63MI, 30MI, 12MI; 5K Walk and 5K Run

All the routes will be fully supported with bike mechanics, volunteer route marshals, rest stops with food and water, cheering volunteers and more.

When I last checked, details of rout and timing were sketchy:

Route Length	Check-In Time	Start Time	End Time
63 MI	TBD	TBD	TBD
30 MI	TBD	TBD	TBD
12 MI	TBD	TBD	TBD
5K WALK	TBD	TBD	TBD
5K RUN	TBD	TBD	TBD

Hamfests

Sunday, March 18, 2018: Winterfest 2018

Time: 6 am - tailgating starts; 8 am - indoor sales area opens; 2 pm closing.

Northern Virginia Community College, Annandale Campus, 8333 Little River Turnpike Annandale, VA.

Sponsor: Vienna Wireless Society, Vienna, VA

Talk-in: 146.91 repeater

Admission for Attendees: \$10 at the door; students high school age and younger get in free when accompanied by an adult. Free admission for students with a college ID.

Website: <http://viennawireless.net/wp/events/winterfest/>

bargains on radios, antennas, radio-related publications, electronics/computer gear, test equipment, and components. Loads of vendors already lined up. Gear from commercial and hobbyist vendors.

VE exam sessions, \$15 fee

Contact: Thor Berglie, KK4UYT, Winterfest Coordinator, Vienna Wireless Society,

thor.berglie@vws.bitsink.com

Saturday, March 24, 2018: FredFest 2018, Frederick, MD

Sponsor: Frederick Amateur Radio Club

Location: Independent Hose Company, 310 Baughmans Ln, Frederick

For more info, click on: <http://frederickarc.org>

Saturday, April 21, 2018: Delaware State Convention (Delmarva Amateur Radio & Electronics EXPO)

Cheer Community Center, 20520 Sand Hill Rd., Georgetown, DE 19947

Website: www.radioelectronicsexpo.com

Sponsor: Sussex Amateur Radio Association

Type: ARRL Convention

Talk-In: 147.090 (CTCSS: 156.7 Hz), Sussex County ARES® Primary Repeater, Millsboro, DE

Contact: Herb Quick, KF3BT, PO Box 1431, Seaford, DE 19973, Phone: 302-629-4949, E-mail:

herb@hamiltongraphics.com

Saturday, April 28, 2018: York Hamfest

Location: Elicker's Grove Park, Spring Grove, PA

Sponsor: York Hamfest Foundation

For more info, click on: <http://www.yorkhamfest.org>

Saturday, May 5, 2018: The Great Hagerstown Hamfest

Sponsor: Antietam Radio Association

Location: Washington County Agricultural Center

For more info, click on: <https://www.W3CWC.org/hamfest>

Sunday, May 6, 2018: Eastern Pennsylvania Section Convention

Sponsor: Warminster Amateur Radio Club

Location: Bucks County Community College - Lower Bucks Campus, Bristol, PA

Website: <http://www.k3dn.org>

Saturday, June 30, 2018: Harrisburg Radio Amateurs Club Firecracker Hamfest

Harrisburg Area Community College, 3599 Industrial Road, Harrisburg, PA 17101

Website: <http://www.w3uu.org>

Sponsor: Harrisburg Radio Amateurs' Club

Talk-In: 146.76 (CTCSS 100.0 Hz)

Contact: Tim Lehman, KB3OZA, PO Box 453, Hummelstown, PA 17036, Phone: 717-461-3398, Email:

kb3oza@arrl.net

You may view upcoming Hamfests at: <http://www.arrl.org/hamfests-and-conventions-calendar>

Essex SkyPark

Saturday, May 5, 2018: Pancake Breakfast Fly-in (Rain or Shine)

Saturday, September 15: 2018 Wings and Wheels (Rain or Shine)

Tuesday, March 13, 7 pm, FBO: Next Essex SkyPark Association

Feature Article

FCC Basic Qualification Question, New Form 606

by Maria Somma, AB1FM, ab1fm@arrl.org

In September 2017, the FCC revised the basic qualifications section of 605 Application Forms (FCC, NCVEC, and Club) to include a question regarding whether an applicant has been convicted of a felony in any state or federal court. This section enables the FCC to determine whether an applicant is eligible under §310(d) and 308(b) of the Communications Act of 1934, as amended, to hold or have ownership interest in a station license.

Applicants' responses and explanation to the basic qualification question (felony question) on the new forms will be used to determine eligibility to be a Commission licensee.

Ed Note: This was brought about impart due the Bill before Congress for Ham Radio Antennas vs HOA's! Apparently during one of the hearings the FCC was asked about if Amateur Radio Operators were vetted, a question about providing communications under an Home Land Security umbrella. The FCC stated that we Hams were not vetted, this apparently lead to the revised 605 form with the felony question.

Where does this leave us?

Applicants are required to answer the question if they are filing any Form 605 for one of the following purposes indicated: new, amended, or renewal with modifications (upgrade or call sign change).

The question does not have to be answered if the applicant is filing a renewal only or an administrative update to their license (change of address, name, e-mail, etc.) Applicants answering "yes" must provide an explanation to the FCC.

Visit www.arrl.org/fcc-qualification-question for detailed information about the FCC's basic qualification question. Each applicant applying for a **new or upgraded** license must answer the basic qualification question. A question left unanswered will result in the application being rejected by the FCC. The bottom line is the applicants who do not answer the mandatory basic qualification question and provide the required felony information to the FCC if required not be issued an FCC license.

Ed Note: Since the Aero Radio Club is an ARRL VEC we get all our forms from the ARRL and are up to date. By the way at a previous test session there was an applicant that had to answer "yes" to the felony question and had to provide information to the FCC within a specified time frame. This person did and received a license about two weeks later than the other applicants.

The bulk of the information other than my comments were taken from the February 2018 issue of QST pg 86.

Joe WB3FMT

Current Question Pools

Technician Class (Element 2) effective July 1, 2014, *only valid until June 30, 2018*

New Tech Class (Element 2) will take effect on July 1, 2018 valid until June 30, 2022

General Class (Element 3) effective July 1, 2015, valid until June 30, 2019

Amateur Extra (Element 4) effective July 1, 2016 valid until June 30, 2020

From the Skies over Mt. Essex

SKY Events for March 2018

Mar 1^h - Full Moon 1st of 2. Colonial Full Moon name is "Fish Moon" and Cherokee as "Windy Moon"

Mar 5th - Zodiacal Light visible for the next 2 week after Evening twilight. Mercury 1.4° N of Venus at 18UT 13:00 EST.

Mar 7th - Jupiter 4° S of the Moon

Mar 9th - Last Quarter Moon

Mar 10th - Mars is 4° S of the Moon.

Mar 11th - DST begins, ends on 11/4/18.

Mar 15th - Mercury greatest elongation E (18°)

Mar 17th - New Moon.

Mar 18th - Venus 4° N of Moon 19 UT (15:00 EDT)

Mar 20th - Equinox at 16:15 UT (12:15 EDT)

Mar 22nd - Aldebaran is 0.9° S of Moon (19:00 EDT)

Mar 24th - First Quarter Moon

Mar 28th - Venus .07° S of Uranus at 20:00 EDT

Mar 31^h - 2nd Full Moon known as a "Blue Moon"

Planet Lookout at mid-Month

Sunrise 07:16 EDT and Sunset 19:13 EDT

Mercury Dusk set at 20:46 mag -0.2 size 7.4 arc sec.

Venus Dusk, Sets 20:29 EDT, mag. -3.9, size 10.3 arc sec.

Mars Morning rises 02:48 EDT, mag 0.6 and 7.4 arc sec

Jupiter Morning, rises 23:52 EDT, mag -2.3 size 40.8 arc sec.

Saturn Dawn sky. Rises 03:25 EDT, Magnitude 0.5 size 16.3 arc seconds.

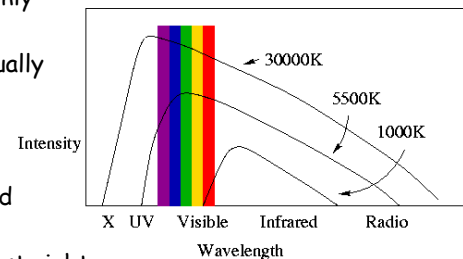
Uranus Evening sky sets 21:47 EDT mag 5.9 size 3.3 arc sec.

Neptune Too close to the Sun all month.

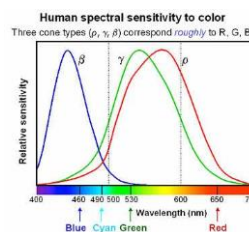
Where are the green stars?

The color of a star is a combination of two phenomena. The first is the star's temperature. This determines the wavelength (frequency) where the peak of its electromagnetic radiation will emerge in the spectrum. A cool object, like an iron rod heated to 3000 degrees, will emit most of its light at wavelengths near 9000 Angstroms (the far-red part of the visible spectrum) in wavelength. A very hot object at a temperature of 30,000 degrees will emit its light near a wavelength of 900 Angstroms (the far-ultraviolet part of the visible spectrum). The amount of energy emitted at other wavelengths is precisely determined by the bodies' temperature, and by Planck's radiation law of 'black bodies'. Below is an example of a black body spectrum courtesy of Prof. Michael Bolte' at the University of California Observatories/ Lick Observatory (www.ucolic.org):

Another factor working against us is that we see stars in the sky using our black/white rods not our color-sensitive cones. This means that only the very brightest stars have much of a color, usually red, orange, yellow and blue. By chance there are no stars nearby that would have produced green colors had their spectral sharpee been just right.



Color does not exist as an objective property of nature. Color is a perception we humans have because of the kinds of pigments used in our retinas. Our eyes do not sense light evenly across the visible spectrum but have a greater sensitivity for green light, and somewhat less so for red and blue light as the response spectrum below illustrates:



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Article by P Steffey in Sky & Telescope Sept 1992.