



*Wings and Wheels Coming Soon (2016 photo)*

## ***The Aero Aerial***

The Newsletter of the Aero Amateur Radio Club  
Middle River, MD  
Volume 14, Issue 9  
September 2017

Editor Georgeann Vleck KB3PGN

### ***Officers***

President	Joe Miko WB3FMT	Repeater	Phil Hock W3VRD Jerry Cimildora N3VBJ
Vice-President	Jerry Cimildora N3VBJ	VE Testing	Pat Stone AC3F
Recording Secretary	Lou Kordek AB3QK	Public Service	Bob Landis WA3SWA
Corresponding Secretary	Pat Stone AC3F	Webmaster, Facebook	Jerry Cimildora N3VBJ
Treasurer	Warren Hartman W3JDF	Trustee	Dave Fredrick KB3KRV
Resource Coordinator	Ron Distler W3JEH	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 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 Examination Schedule

Time:	1:15 pm	1:15 pm	
Dates:	Sunday, September 10	Sunday, November 19	
Where:	White Marsh Library	White Marsh Library	

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

Contact: Patricia Stone AC3F, email: [ac3f@juno.com](mailto: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 <sup>nd</sup> Tue	7:30 pm	146.670	Baltimore County RACES Net
2 <sup>nd</sup> Wed	8 pm	28.445	Aero ARC Net
4 <sup>th</sup> Wed	8 pm	147.240	Aero ARC Net
5 <sup>th</sup> 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)

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## ***NET REPORTS***

### **8-9-17: 28.445 MHz , 20:00 to 20:43 local.**

W3PGA Joe Essex, W3VRD Phil Essex, N3EKO Ron Parkville, KB3JVP Ken Middle River, KB3VAE Rich Middle River

There were 5 members on the net.

### **8-23-17: 147.24r MHz, 20:08 to 20:39 local.**

W3PGA NCS Joe Essex, N3RES Ray Lutherville, KB3VAE Rich Middle River, W3JEH Ron Perry Hall, KB3JVP Ken Middle River, KC3FBM Franklin Parkville

My bad I lost track of time. We had 6 members on the net.

### **08-30-17: 449.575r MHz, 20:05 to 20:37 local.**

W3PGA NCS Joe Essex, N3RES Ray Lutherville, KB3JVP Ken Middle River, N3EKO Ron Parkville, KB3VAE Rich Middle River, N3VBJ Jerry Towson, W3VRD Phil Essex, W3JEH Ron Perry Hall

We had 8 members on the net.

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## ***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
TBA	Ham Radio in the Modern Age	Keon KE3HAY

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](mailto:KB3PGN@reagan.com) for inclusion in the Aerial.*

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## MEETING NEWS

At the Sept. 6 meeting our VE coordinator Pat Stone will discuss the recent changes in FCC form 605. Also, we will discuss our participation in the SkyPark's Wings and Wheels event on Saturday, September 16.

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### *VE CORNER*

*by Pat Stone, AC3F*

The AERO VE Team held its third annual FD test session on Saturday, June 24th, 2017 at the Essex Sky Park. We served 10 applicants. Congratulations to new Extra Don N1TTX, new Generals Ray N3RES and Scott KG7CKE, and new Techs Jeff KC3JLR, Steph KC3JLS, Marc KC3JLT, Joyce KC3JLW, Jasmine KC3JLU, and James KC3JLV.

A very special thanks to VE's: WB3FMT, KD3TP, KB3VAE, KC3FBL, KC3FBM, KB3KRV, and K2ODG for assisting me with this session. You all did a great job as usual. It was a pleasure working with all of you. A special thanks to Jerry N3VBJ for assisting our examinees and delivering the new HTs to 4 of the new hams who successfully completed their exams at this session.

Our next test session will be held at 1:15PM on Sunday, Sept. 10th, 2017 at the White Marsh library. Hope to see you there.

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## *UPCOMING HAMFESTS and EVENTS*

### ***Glenn L. Martin Monthly Speaker Series***

Monday, Sept. 11, 7 pm, Lockheed Martin Auditorium, 2323 Eastern Blvd., Middle River, MD 21220

Historian Jack Breihan will talk about Martin airplanes. FREE and open to the public, bring picture ID; children must be accompanied by an adult.

**Saturday, September 9, 2017: Virginia Section Convention (Virginia Beach Hamfest)**

Virginia Beach Convention Center, 1000 19th Street, Virginia Beach, VA 23450

Website: [vbhamfest.com](http://vbhamfest.com)

Sponsor: Tidewater Radio Conventions

Talk-In: 146.970 (CTCSS: 141.3 Hz), W4KXV Virginia Beach Repeater

Contact: Carl Clements, W4CAC, 4500 Wake Forest Rd., Portsmouth, VA 23703, Phone: 757-235-4813,

E-mail: [w4cac@cox.net](mailto:w4cac@cox.net)

**Sunday, September 10, 2017: New Jersey State Convention**

Gloucester County 4-H Fairgrounds, 235 Bridgeton Pike (Route 77), Mullica Hill, NJ 08062

Website: <http://w2mmd.org>

Sponsor: Gloucester County ARC - W2MMD

Talk-In: 147.180(+) (CTCSS 131.8), 40m 7.245 kHz & 20m 14.340 kHz ± 5 kHz

Contact: Sheldon Parker , K2MEN, 643 Betty Rose Avenue Gibbstown, NJ 08027, Phone: 856-423-1767,

Email: [k2men@comcast.net](mailto:k2men@comcast.net)

**Sunday, October 1, 2017: CARA Fest**

Howard County Fairgrounds, 2210 Fairgrounds Road, West Friendship, MD 21794

Website: [www.carafest.org](http://www.carafest.org)

Sponsor: Columbia Amateur Radio Association

Talk-In: 147.390+ (CTCSS: 156.7), K3CUJ repeater, Columbia, MD

Contact: David Parkison, KB3VDY, 1257 Stevens Ave., Arbutus, MD 21227, Phone: 410-977-1249,

Email: [info@carafest.org](mailto:info@carafest.org)

**Saturday, December 9, 2017 : Second Annual American Legion PGCERA SantaFest**

American Legion Youth Camp, 9201 Surratts Rd., Cheltenham, MD 20623

Website: [pgares.org/santafest/](http://pgares.org/santafest/)

Sponsor: American Legion and Prince Georges County Emergency Repeater Association

Talk-In: 145.230 (CTCSS: 110.9 Hz), K3ERA repeater, Greenbelt

Contact: Charles Hallock, AA3WS, 16203 Manning Rd., West Accokeek, MD 20607 , Phone: 301-535-

1666, E-mail: [selbynet@hotmail.com](mailto:selbynet@hotmail.com)

**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](http://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](mailto:herb@hamiltongraphics.com)

**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](mailto:kb3oza@arrl.net)

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

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## DID YOU KNOW ...?

### Q SIGNALS

Q-signals are a system of radio shorthand as old as wireless and developed from even older telegraphy codes. Q-signals are a set of abbreviations for common information that save time and allow communication between operators who don't speak a common language. Download Q-Signals: <http://www.arrl.org/files/file/Get%20on%20the%20Air/Comm%20w%20Other%20Hams-Q%20Signals.pdf>.

Source: MDC Section News, Vol. 12, No. 07, July 14, 2014

# From the Skies over Mt. Essex

## SKY Events for September 2017

Sept 3<sup>rd</sup> - The USA's Viking 2 lands on Mars in 1976

Sept 4<sup>th</sup> - Neptune in opposition.

Sept 5<sup>th</sup> - Full Moon "Corn" for the Traditional American and the "Fruit" for the English Full Moons.

Sept 10<sup>th</sup> - Regulus is 0.6° upper left of Mercury

Sept 12<sup>th</sup> - Mercury is 18° West of the Sun

Sept 13<sup>th</sup> - Last Quarter Moon, USSR's Luna 2, first craft to impact the Moon in 1959

Sept 16<sup>th</sup> - Mars is 0.3° lower left of Mercury.

Sept 18<sup>th</sup> - The Zodiacal Light is visible in N lat in the east before morning twilight for the next 2 weeks.

Sept 20<sup>st</sup> - New Moon, Regulus is 0.6° right of Venus

Sept 22<sup>nd</sup> - Fall equinox begins at 04:02 EDT

Sept 27<sup>th</sup> - First Quarter Moon

Aug 30<sup>th</sup> - Saturn is 4° S of the Moon

## Planet Lookout at mid-Month

### Sunrise 06:47 EDT and Sunset 19:14 EDT

**Mercury** Dawn rises 05:20, mag -1.1, 5.8 arc sec.

**Venus** Dawn rises 04:24 mag -3.9, 11.5 arc sec

**Mars** Dawn, rises 05:25, mag 1.8 and 3.6 arc sec.

**Jupiter** Eve sets 20:331, mag -1.7 size 31.2 arc sec.

**Saturn** Eve sets 23:34, mag 0.5 size 16.4 arc sec.

**Uranus** Eve rises 20:32, mag 5.7, size 3.7 arc sec.

**Neptune** Eve rises 18:45, mag +7.8 size 2.3 arc sec.

## Do you remember Aunt Sally?

Raise your hand, good then! Please go up to the blackboard for a little test. Dear Aunt Sally is a Mnemonics (a word or jingle used as a short cut memory jogger). Please Excuse My Dear Aunt Sally is the sequence of math order when solving a math problem. P Parentheses, E Exponents, Multiplication, D Division, A Addition, S Subtractions. There are a host of others.

For the most part amateur astronomers don't normally have to deal with complex math problems. When they do there is plenty of help. The Astronomical League publishes a book entitled ***Math for Amateur Astronomers*** by James H. Fox.

This publication cost about \$10.00 and covers topics such as: Simple Optics, Astrophotography, Time, Navigation, Orbits, Data Preparation and more.

I have found the following to be the most used math equations and assumptions:

**Power** = Telescope Scope FL mm / Eyepiece mm  
SCT 8" 2032/40 = 51x

**Apparent Field (AF)** = 46° (Mfg specs)

**Actual Field (TF)** in ° = AF/eyepiece power  
46/51 = .9° Actual Field TF

**Field of View in arc minutes** = TF \* 60

**Convert degrees to feet** at 1,000 yards (3,000 ft)  
= Actual Field \* 52.5 .9\*52.5 = 47.25 feet

**Maximum Useful Magnification** is 50x per inch or 2x the diameter of the objective lens in mm.

You can also build an Excel spreadsheet to computer the useful value for all of your eyepieces. And then add the new lens when you get them.