



Field Day 2016

The Aero Aerial

The Newsletter of the Aero Amateur Radio Club
Middle River, MD
Volume 14, Issue 6
June 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
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		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:	Noon	1:15 pm	
Dates:	Saturday, June 24	Sunday, September 10	
Where:	AeroARC FD Site	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)

FIELD DAY PREP

REMINDER!

Meetings this month will concern preparations for Field Day,

June 24-25, 2017.

Don't miss them!

GROUP PHOTO!

A group photo will be taken a few minutes prior to the start of FD on Saturday. Try to arrive in time so we can include as many members as possible.

NET REPORTS

05-10-17: 28.445 MHz, 20:00 to 20:12 local.

W3PGA Joe (NCS) Essex, KC3AID Marty Rosedale

05-24-17: 147.240 MHz, 20:00 to 20:51 local.

W3PGA NCS Joe Essex, K3TEL Arnold Towson, N3RES Ray Lutherville, AC3F Pat Middle River, KB3PGN Georgeann Essex, W1ASA Izzie Baltimore City, N3VBJ Jerry Towson, KB3VAE Rich Middle River, W3JEH Ron Perry Hall, KA3SNY Dave Essex, AA3BR Peter Timonium, N3EKO Ron Parkville, KC3FRH Charles Parkville

We had 13 members on the net.

Upcoming Second Meeting Presentations

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

<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

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

The AERO VE Team held its third test session for 2017 on Sunday, May 21st, 2017 at the White Marsh Library. We served 1 applicant. Congratulations to new General Nate Tiller, KC3JBO.

A very special thanks to VE's: WB3FMT, KD3TP, KB3VAE, AC0LP, KB3KRV, and AB3QK 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 Frank KC3FBM for serving his first (of many I hope) session with us.

Our next test session will be held at Noon on Saturday, June 24th, 2017 at the Essex Sky Park as we kick off Field Day weekend. Hope to see you there.

We are scheduled to test on Sunday, September 10th at 1:15PM at White Marsh Library. Take care & God bless.

UPCOMING HAMFESTS and EVENTS

Sunday, June 4, 2017: Manassas (Va) Hamfest

Prince William County Fairgrounds, 10624 Dumfries Rd, Manassas, VA

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

Sponsor: Ole Virginia Hams ARC

Talk-In: 146.97

Contact: Terry Erlacher, KC4DV, PO Box 1255, Manassas, VA 20108, Phone: 571-292-1490, Email: kc4dv@arrl.net

Saturday, June 17, 2017: CVARC HAMFEST 2017

Sponsor: Cumberland Valley Amateur Radio Club

Cumberland Valley Engine & Machinery Association (CVEMA) Show Grounds

1501 Criders Church Road, Chambersburg, PA 17201

Website: www.w3ach.org

Talk-In: 147.12 (CTCSS 100.0 Hz)

Contact: Ray Smith, N3TWU, 27 N. Queen Street, Shippensburg, PA 17257, Phone: 717-377-3550, E-mail: raysmith@pa.net

Sunday, June 18, 2017: BARC's Father's Day Hamfest

Arcadia Volunteer Fire Company Grounds, 16020 Carnival Avenue, Upperco, MD 21155

www.w3ft.com

Sponsor: Baltimore Amateur Radio Club

Talk-In: None

Contact: Dave Shadwell, AB3TE, PO Box 120, Reisterstown, MD 21136, Phone: 443-465-6583, E-mail: <w3ft67@yahoo.com>

June 15, 16, 17, 2017: 3905 CENTURY CLUB EYEBALL 2017 UPPERCO MD

The 3905 Century Club, Eyeball 2017 will be held at the Arcadia Volunteer Fire Company Carnival Grounds, 16020 Carnival Ave, Upperco, MD 21155 the weekend of June 15, 16, 17 (Father's Day Weekend). For more information see <http://3905ccn.com/eyeball-2017.htm> - registration and attendance fees.

ALL registered and paid Eyeball attendees will be admitted FREE to the June 18th Baltimore Amateur Radio Club's Father's Day Hamfest, which will be held on the SAME grounds at the pavilion directly outside of the Eyeball hall and any eyeball attendee will receive a free tailgate spot if requested.

Sunday, July 1, 2017: Harrisburg Radio Amateurs Club Firecracker Hamfest

Sponsor: Harrisburg Radio Amateurs' Club

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

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

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

Sunday, August 6, 2017: 67th Annual Berryville Hamfest

Sponsor: Shenandoah Valley Amateur Radio Club

Clarke County Ruritan Fairgrounds, 890 West Main Street, Berryville, VA 22611

Website: www.shenvalarc.org/hamfest

Contact: Thomas Brownlee, AF2D, 744 Gafia Lodge Road, Middletown, VA 22645, Phone: 540-869-7065, E-mail: af2d@arrl.net

Glenn L. Martin Aviation Museum 2017 Schedule of Events

Speaker Series (free)

Monday, **June 5**: Dr. Tom Jones, "The Next Earth: A New Look at Planets" – a new, visionary look at the solar system and space pioneering.

Jones holds a Doctorate in Planetary Sciences from the University of Arizona. He studied asteroids for NASA, and helped NASA develop advanced mission concepts to explore the solar system. A Kenwood High School graduate, Dr. Jones returns annually to the Museum speaker podium to share his experiences, his research and, for future space pioneers, he shares his enthusiastic inspiration of visionary thinking. For additional Information call 410-682-6122.

Monday, **July 3**: TBA

Talks begin at 7 PM in the Lockheed Martin auditorium, 2323 Eastern Blvd. Lockheed Martin requires a photo ID, and children under 18 must be accompanied by an adult. The series runs the first Monday of every month from April to November unless it is a federal holiday.

Open Cockpit: Saturday, June 10, 9 am – 1 pm

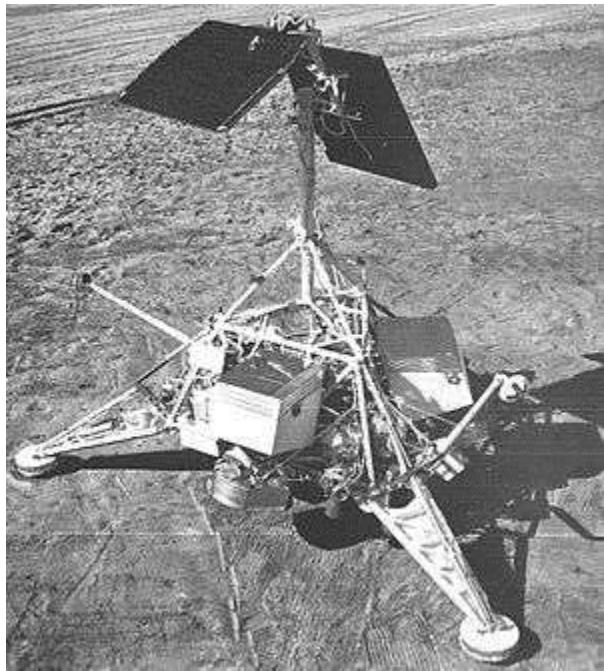
Open Cockpit days provide visitors the opportunity to sit in the pilot seats of the Museum's outdoor airplanes. A new element to the June Open Cockpit Day is a **flea market**, opening at 8am, and featuring household items, arts and crafts, fashion, services and community organizations.

Shuttle buses to the flightline begin at 9:15am with the last bus departing at 12:00 pm. Food vendors will be on site.

The Martin Aviation Museum is located at 701 Wilson Point Road, Middle River 21220. In the event of rain, the Open Cockpit segment will be cancelled. Admission for this special event is \$5 for adults and \$1 for children. For additional information call 410-682-6122.

Open Cockpit also on Saturday, July 8

DID YOU KNOW ... ?



June 2, 1966: U. S. space probe Surveyor I landed on the moon and began transmitting detailed photographs of the lunar surface.

From the Skies over Mt. Essex

SKY Events for June 2017

June 1st - First Quarter Moon

June 2nd – Venus is 1.8° S of Uranus

June 3rd – Venus Greatest Elongation W (46°)

June 4th – Double transit on Jupiter (02:21 UT), 22:23 EDT on 6/3.

June 9th - Full Moon “**Strawberry**” for the Traditional American and the “**Flower**” for the English Full Moons. *Smallest Moon of 2017*

June 15th – Saturn at Opposition

June 16th – Neptune 0.7° N of the Moon

June 17th – Last Quarter Moon.

June 20th – Venus 2° N of the Moon, Double transit on Jupiter (02:04 UT), 22:04 EDT on 6/19. Also, the longest day 15hr 01 min at 40° N Lat.

June 21st – Summer Solstice (04:24 UT) 00:24 EDT

June 22nd – Aldebaran 0.5° S of Moon, occultation, most of U.S. (15:00 UT),

June 24th – New Moon

June 27th – Latest Sunset 20:37 EDT

Planet Lookout at mid-Month

Sunrise 05:39 EDT and Sunset 20:34 EDT

Mercury End of Month sets at 20:02, mag -1.7, 5.2 arc sec.

Venus Dawn rises 03:18 mag -4.3, 20.8 arc sec

Mars Eve, sets 21:31, mag +1.7 and 3.6 arc sec.

Jupiter Rise 14:30, mag -2.1 size 38.9 arc sec.

Saturn Eve rises 20:18, mag 0.0 size 18.4 arc sec.

Uranus Morn rises 02:37, mag 5.9, size 3.3 arc sec.

Neptune Morn rises 00:55, magnitude +7.9 size 2.4 arc sec.

Rings wide open - Saturn 2017

Saturn is at opposition on June 15th, which means it is visible all night long. The ringed planet shines at its brightest at 0 magnitude. The planet is a respectable 18.4 arc seconds wide but, the ring system is 42 arc seconds wide. Saturn tips its north pole and rings towards Earth at their maximum of 27°, to a line of sight, the widest since 2003.

If you look carefully you can see the north pole of Saturn in line with the Cassini Division. You might be able to see the south hemisphere through the division at the other end of the rings. Any telescope will reveal the dark band known as Cassini Division that separates the outer A ring from the brighter B ring.



Saturn's ring system extends up to 175,000 miles (282,000 km) from the planet, yet the vertical height is typically about 30 feet (10 meters) in the main rings.

Among the ring system are "braided" rings, ringlets and "spokes" -- dark features in the rings that form and initially circle the planet at different rates from that of the surrounding ring material. Two tiny moons, Pan and Daphnis, orbit in gaps (Encke and Keeler gaps, respectively) in the rings and keep the gaps open. Other particles are too tiny to see, but create propeller-shaped objects in the rings that let us know they are there.

Named alphabetically in the order they were discovered, the rings are relatively close to each other, with the exception of the Cassini Division, a gap measuring 2,920 miles (4,700 km). The main rings are, working outward from the planet, known as C, B and A.

The Cassini Division is the largest gap in the rings and separates Rings B and A. In addition, a number of fainter rings have been discovered more recently. The D Ring is exceedingly faint and closest to the planet. The F Ring is a narrow feature just outside the A Ring. Beyond that are two far fainter rings named G and E. Interestingly, each ring orbits at a different speed around the planet.

Ref. NASA, RASC, Wikipedia