



*Chino Grinder Water Stop 2014
Chino, Arizona*

The Aero Aerial

The Newsletter of the Aero Amateur Radio Club
Middle River, MD
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May 2017

Editor Georgeann Vleck KB3PGN

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Vice-President	Jerry Cimildora N3VBJ
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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:	1:15 pm	Noon
Dates:	Sunday, May 21	Saturday, June 24
Where:	White Marsh Library	AeroARC Field Day Site

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)

CALL FOR VOLUNTEERS

As of this writing, we still need volunteers for the American Diabetes Association Tour de Cure bike event. This is a perfect opportunity for **NEW HAMS** to get some good experience operating under field conditions and to support a worthy cause.

A **special presentation** will be made at the May 6th meeting to refresh your knowledge of good communications practices for public service events. Don't miss it!

NET REPORTS

04-12-17: 28.445 MHz, 20:00 to 20:31 local.

W3PGA Joe (NCS) Essex, W3JEH Ron Perry Hall, KC3HXL Joel Essex, W3VRD Phil Essex

04-26-17: 147.240, 20:00 to 20:30 local. We had 9 members on the net.

W3PGA NCS Joe Essex, N3RES Ray Lutherville, KB3PGN Georgeann Essex, N3VBJ Jerry Towson, AC3F Patricia Middle River, W3JEH Ron Perry Hall, KB3JVP Ken Middle River, KB3VAE Rich Middle River, KC3FZZ Margret Middle River

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>
5/3/17	Public Service Comms: Advice from Experts	Georgeann KB3PGN
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 second test session for 2017 on Sunday, March 26, 2017 at the White Marsh Library. We served 7 applicants. Congratulations to new Technicians Mary Jane Jackson KC3IYT, Tim Strickland KC3IYU and Dante Trasatti KC3IYV and new Extras Phil Heller KC3CAD and Bruce Hensler AC3AN.

A very special thanks to VE's: WB3FMT, KD3TP, KB3VAE, W1ASA and KC3FBL for assisting me with this session. You all did a great job. It was a pleasure working with all of you.

Our next test session will be held at 1:15PM on Sunday, May 21st , 2017 at the White Marsh Library. Hope to see you then.

UPCOMING HAMFESTS and EVENTS

Saturday, May 6, 2017: The Greater Hagerstown Hamfest

Washington County Agriculture Center, MD Route 65 South, Sharpsburg Pike, Hagerstown, MD

<http://w3cwc.org/Portals/5/Hagerstown%20Hamfest%202017.pdf>

Sponsor: Antietam Radio Association

Talk-In: 147.09 (PL 100) & 146.94 backup

Contact: Herm Niedzielski, K2AVA, 21512 Leitersburg-Smithsburg Rd, Hagerstown, MD 21742, Phone: 301-791-5841, Email: k2ava@myactv.net

Friday, May 19, 2017 through Sunday, May 21, 2017: 2017 Dayton [Ohio] Hamvention

Greene County Fair & Exposition Center, 120 Fairground Rd, Xenia, OH 45385

[<http://www.hamvention.org>](http://www.hamvention.org)

Sponsor: Dayton Amateur Radio Association Talk-In: 146.94 & 146.91 (alternate)

Contact: Phone: 937-276-6930, Email: [<info@hamvention.org>](mailto:info@hamvention.org)

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

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, **May 1**: Aaron Harrington, aerospace engineer, Aberdeen Proving Ground. Topic:

Drone Project at the U.S. Army Research Lab

Monday, **June 5**: Tom Jones, Essex native and veteran astronaut

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 has new hours for 2017 so visitors can beat the heat. Shuttle buses to the flight line begin at 9:15 AM and the last bus goes to Strawberry Point at noon. In the event of rain, the Open Cockpit will be canceled.

Saturday, May 13, Saturday, June 10, Saturday, July 8

Source: Martin Museum newsletter, Spring 2017

Space Telescope Science Institute – Public Lecture Series

May 2, 2017: Speaker: Mia Boyll, Space Telescope Science Institute

Title: The Harvard Computers and the HR Diagram

PUBLIC SERVICE EVENTS – COMMUNICATIONS

adapted by Georgeann Vleck KB3PGN from a presentation by Lloyd Halgunseth WA6ZZJ (SK) of the Yavapai ARC, Prescott, Arizona

TACTICAL CALL SIGNS

- Use the Tactical Call Sign to identify your transmission and address another station by its Tactical Call Sign.
- No call sign is necessary in a two-way conversation once communications has been established.
- To comply with FCC rules, add your FCC call sign to your last transmission in a series.
- It is not necessary to add the receiving party's call sign, just your own.

Example:

- Rest Stop Two: Rest Stop Two
- Net Control: Rest Stop Two
- Rest Stop Two: Volunteers are on station and rest stop is staffed. Over
- Net Control: I copy, W7YRC Out.
- Rest Stop Two: YOUR CALL Out.

Using Over and Out may be omitted if it will not cause confusion. Signing with your FCC call sign will signify ending your transmission.

An easy way to remember –

establish contact using your **Tactical Call
end the contact with your **FCC Call****

IN CASE OF EMERGENCY

On a long tour and with many bikes, we can anticipate a couple of medium emergencies, typically caused by contact between bikes riding very close together.

Bike-car accidents are very rare. Sometimes SAGS will find an accident. A SAG may be waved down, or a report comes in to a rest stop reporting an accident.

If you are the first to witness or receive a verbal report of an accident, **BREAK IN** with the words:

EMERGENCY, this is (tactical call)

Net Control may move the incident to another **EMERGENCY** designated frequency (with a second Net Control operator).....

Net Control may hold all net traffic except the **EMERGENCY** related traffic until after it has been cleared....

LOG RIDER/RUNNER NUMBERS

Important for two reasons. 1) **privacy** - we don't want names passed over the air.

2) To **ensure we are dealing with the correct rider/runner**. We may get a report of a rider needing pickup and the SAG might find a different rider, unknowingly leaving the rider who was reported waiting for a pickup. Knowing for sure who needs a pickup (by the rider/runner number) prevents this.

KEEP AN ACTIVITY LOG

What happened when:

When you arrived

When you finished set-up

When you reported to net

control

Etc.

AFTER ACTION REPORT

✓ Event	✓ Operator(s)
✓ Date	✓ What Went Well
✓ Assigned Location	✓ What Needs Improvement

OPERATING PROCEDURES

- When transmitting, always TALK ACROSS THE FACE OF THE MICROPHONE!
- Speak slowly, distinctly and clearly.
- Hold the mike button down before beginning your message so that the first part of your transmission is not cut off.
- Know what you are going to say before you push the mike button. No Ah's and Um's.
- Listen... before transmitting to be sure you are not doubling with another station.
- Net Control stations are frequently busy with work that is not on the air. If you call the Net Control and do not get a reply, be patient and call again in a minute or two. If it is an emergency, so state; otherwise just space your calls to Net Control.
- Always keep a monitor on the net frequency.
- If you must leave the frequency, ask permission from the NCS. Advise NCS when you return to the frequency. It is important that NCS knows the whereabouts of each station in the net.
- Always acknowledge calls and instructions.
- You can acknowledge by just giving your unit identification.
- Nothing is more disruptive to the smooth flow of traffic than dead silence in response to a message.
- Use a headset in noisy areas
- WATCH FOR 'STUCK MIKES' ON THE FREQUENCY. MAKE SURE YOUR MICROPHONE IS NOT IN A POSITION TO ACCIDENTALLY BECOME TURNED ON.
- DO NOT USE VOX.
- MAKE SURE YOU HAVE THE RECEIVING STATION'S ATTENTION BEFORE PASSING YOUR INFORMATION.

From the Skies over Mt. Essex

SKY Events for May 2017

May 2nd – Moon is 1.7° N of Neptune 7:00 EDT

May 4 – 6th – Eta Aquariids meteor shower, 20-60 per hr, from Halley's Comet, New Moon

May 5th – Alan Shepard 1st American in Space in Mercury's "Freedom 7" in 1961.

May 25th – New Moon and the Moon is 0.7° N of Venus at 4:00 EDT

May 9th – Mercury Transits the Sun starts 07:12 EDT ends 14:42 EDT.

May 3rd - First Quarter Moon

May 14th – USA's Skylab launched in 1973

May 10th - *Full Moon "Flower Moon"* for the Traditional American and the "Milk Moon" for the English Full Moons.

May 22nd - Mars at opposition, Saturn 3° S of Moon

May 19th – Last Quarter Moon.

May 30th – Mars closet approach 18.6 arc sec, closest since 2005. No It's not as big as the Moon!

Planet Lookout at mid-Month

Sunrise 05:52 EDT and Sunset 19:13 EDT

Mercury Transit 5/9/16 Glare of the Sun

Venus Dusk sets 19:42 mag -3.9, 9.8 arc sec

Mars Eve, rises 20:44, mag -1.9 and 17.9 arc sec. closest approach on 30th, size 18.6 arc sec.

Jupiter Eve, sets 02:57, mag -2.2 size 39 arc sec.

Saturn Eve rises 21:27, mag 0.1 size 18.4 arc sec.

Uranus Dawn rises 04:22, mag 5.9, size 3.3 arc sec.

Neptune Morn rises 02:45, magnitude +7.9 size 2.4 arc sec.

Won't you be my neighbor!

For more monthly nights than not a formidable sight in the night sky is our own Moon. A foreboding satellite of the Earth, a mere quarter of a million miles from home. Since the 1950's when man started to use rockets for space exploration his sights have been set on the Moon. Prior to the 1600 man thought that the Moon had Earth like features, like mountains, Lakes, Sea and Oceans. This came a halt in 1610 when Galileo turned his telescope from the clock tower to the sky. He discovered that all the water features on the moon were made out of stone.

By the end of 1969 man made his first step on the lunar surface and from then till 1972, 12 visitors from Earth walked on that rocky surface.

The International Astronomical Union a group of international professional astronomers was founded in 1919. Its mission is to promote and safeguard the science of astronomy in all its aspects through international cooperation. Part of the IAU's task is to develop a standard naming convention for planetary objects.

The Moon Note: During the 360 year history of lunar nomenclature, various names were given that do not conform to the present naming scheme, which will be followed for future naming.

Deceased scientists and polar explorers who have made outstanding or fundamental contributions to their field. Deceased Russian cosmonauts are commemorated by craters in and around Mare Moscovense. Deceased American astronauts are commemorated by craters in and around the crater Apollo. Appropriate locations will be provided in the future for other space-faring nations should they also suffer fatalities. First names are used for small craters of special interest.

Craters
Lacūs,
Maria,
Paludes,
Sinūs,
Oceanus

Latin terms describing weather and other abstract concepts

Montes Terrestrial mountain ranges, nearby craters, and

deceased scientists who have made outstanding or

fundamental contributions to their fields

Rupēs, Nearby craters or other landforms

valles

Dorsa Geoscientists

Catenae, Nearby craters

rimae) Craters lettered after nearby prominent named

craters