



Putting the "aero" back in the Aero ARC, FD 2013

The Aero Aerial

The Newsletter of the Aero Amateur Radio Club
Middle River, MD
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Website: <http://home.comcast.net/~frank-stone/Aero%20ARC/aero.htm>

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 Coffman's Diner, located at Middle River and Orems Rds. and Fuselage Ave. in Aero Acres. Meetings begin at 7:30 p.m. local time.

Repeaters

W3PGA 2 M : INPUT : 147.84 MHz, OUTPUT : 147.24 MHZ
W3PGA 70 Cm: INPUT : 444.575 MHz, OUTPUT : 449.575 MHZ
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.

2014 Examination Schedule

Where: White Marsh Branch
Baltimore County Public Library
8133 Sandpiper Circle, White Marsh, Md. 21236

Time: 1 p.m.

Dates: September 22, November 22

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	147.33	Oriole Net
Daily	6 pm	3.820	Maryland Emergency Phone Net
Daily	6:30 - 7 pm	146.670	Baltimore Traffic Net
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
When activated by NOAA		146.670	SkyWarn

OPEN COCKPIT DAYS

by Georgeann Vleck KB3PGN & Jerry Cimildora N3VBJ

At Open Cockpit Day at Glen L. Martin Aviation Museum on May 10, Warren W3JDF, Georgeann KB3PGN, and Jerry N3VBJ provided communications between the Museum in Hangar 5 and the flight line at Strawberry Point, a distance of about one mile, using HT's and the Club 147.24 repeater.

We had 36 cars over the four hours, before the heavens opened and drenched us all who were not under cover. It was an informative and educational public service, and we recommend this to all who have free time. It's a lot of fun. Don't forget to bring your lunch, plenty of water, and your HT.

We need two people on the flight line and one person at the museum. Next such public service opportunities are July 12 and August 9, weather permitting.

Open Cockpit Day, June 14, 2014

by Jerry Cimildora N3VBJ

Jerry N3VBJ, Warren W3JDF, and Rich KB3VEA did communications. Weather was beautiful. We had a total of 127 visitors in 68 car loads. AERO club was commended for their efforts in providing reliable communication between the museum and the flight line

CUB SCOUT RADIO DEMO

by Joe Miko, WB3FMT

On Monday, June 2, 2014, Rich Hoerner KB3VAE set up a ham radio demo for Cub Scout Pack 372. They are located at the Back River United Methodist Church, not far from the Essex Sky Park.

I was able to talk to 7 Cub Scouts and 1 Boy Scout, all from #372. We used 50.24 MHz USB and exchanged first names and where the boys were from, no specifics. I explained the use of HF communications and how the 2-meter rig that Rich has was the precursor to mobile telephones.

Rich called me at 19:30 and we were logged off at 19:48. We had 147.24 capabilities, but it was not used due to time constraints at their end.

NET REPORTS

5-14-14: 28.445 MHz, 20:00 to 20:29 local

W3PGA (NCS) Joe Essex, W3JEH Ron Perry Hall, AC3F Pat Middle River, AC3P Frank Middle River, KB3VAE Rich Middle River

5-28-14: 147.24 MHz, 20:00 to 20:27 local

W3PGA (NCS) Joe Essex, AC3P Frank Middle River (Telco from Franklin Square Hospital to Joe's QTH), AC3F Pat Middle River, (Telco from Franklin Square Hospital to Joe's QTH), W3JEH Ron Perry Hall, K3YGC Mike Essex, N3VBJ Jerry Dundalk

6-11-14: 28.445 MHz, 20:00 to 20:30 local

N3VBJ (NCS) Jerry Dundalk, W3JEH Ron Parkville, W3VRD Phil Essex, KB3PGN Georgeann Essex, KA3SNY Dave Essex, NE3A Ken Middle River

Note: Net moved to 147.240 repeater due to poor reception (thunderstorms)

6-25-14: 147.24 MHz, 20:00 to 21:31 local

W3PGA Joe (NCS) Essex, AC3P Frank Middle River, W3JEH Ron Perry Hall, KB3PGN Georgeann Essex, KA3SNY Dave Essex, W3VRD Phil Essex

VE CORNER

by Pat Stone, AC3F

The AERO VE Team returned to the White Marsh Library on Saturday, May 31st, 2014. We had a total of 6 applicants for this session.

Congratulations to our new Techs: Garth **KC3CZA**, Bill **KC3CZB**, and Robert **KC3CZC**. Welcome back to ham radio goes out to Jim Kyle **KC3CZD** after a decade or 2 hiatus. Congratulations to Aero Member, Lisa **KC3AIJ** on earning her General. Congratulations to Bill Quillin **KC3CXZ** on earning his Extra.

A special thank you to Joe WB3FMT for his skillful navigation of the FCC website to assist one of our examinees. Also a very special thanks to WB3FMT, KB3KRV, AB3QK, & KB3EK for assisting me with this session.

As of July 1st, 2014 the question pool for the Technician class exam will be updated. New test materials will reflect these changes.

Our next test session is scheduled for September 27, 2014 at White Marsh.

PUBLIC SERVICE OPPORTUNITIES

JULY 12 – Glen L. Martin Museum's "Open Cockpit" Aircraft Display

Warren W3JDF is looking for help during this event. Radio operators are needed to provide communications between the museum and the aircraft display at Strawberry Point.

You will need either 2 meters mobile or HT or 440. The times are from 11:00 am to 3:00 pm on the **second Saturday** of each month. The Airport needs at least 3 operators.

The upcoming dates are: **July 12th** and **August 9th**, weather permitting. If you can help please call Warren at 443-417-4083 (cell).

How it works. Visitors may for a small fee visit the flight line portion of the museum at Strawberry Point, which has about 14 aircraft. Martin's is a working airport, and all vehicles must be escorted while in the restricted areas, taxiways, and roads. After a brief class on safety, visitors line up in their cars and are escorted by volunteers to the flight line. They then tour the planes, having the opportunity to sit in the cockpit while knowledgeable volunteers, who restore and maintain the aircraft, answer questions. When they are ready to leave, they are escorted back to the airport exit. Ham radio volunteers provide communications between the Museum in Hangar 5 and the flight line.

STATION ACTIVITIES

Welcome to **KB3PGN** joining *The Aerial* staff. Congrats to new General **KC3AIJ**. Speedy recovery to **AC3P** and **W3VRD**. **KB3QAX** is now **NE3A**.

From the Skies over Mt. Essex

SKY Events for July 2014

July 4th - Happy Birthday USA 238 years old.

July 4th - Pluto (dwarf planet) at opposition and Earth at aphelion 94,506,320 miles from the Sun.

July 5th - First Quarter Moon.

July 5th - Mars is 0.2° South of the Moon.

July 7th - Saturn is 0.4° North of the Moon.

July 12th - Full Moon . "Moon of Claiming" for the Celtic and the "Full Buck Moon" Traditional Full Moon Names.

July 12th - Mercury greatest western elongation 21°.

July 16th - Comet Shoemaker-Levy 9 crashed into Jupiter in 1994.

July 19th - Last Quarter

July 20th - Apollo 11 landed on the Moon in 1969, 44 yrs ago.

July 26th - New Moon.

July 29th - NASA founded in 1958.

July 30th - Delta Aquarid meteor shower approx 16 per hr.

Planet Lookout at mid-Month

Sunrise 05:52 EDT and Sunset 20:31 EDT

Mercury in the Morning Sky very low in the East rises 04:25 EDT, magnitude +0.1; 7.3 arc seconds.

Venus - In the East at dawn, rises about 03:54 EDT magnitude -4.0 and 11.4 arc seconds.

Mars- SW sky at dusk, sets about 00:33 EDT, magnitude +0.2 and 8.6 arc seconds wide.

Jupiter- Low in the West at dusk, magnitude -1.8 size 32 arc seconds, sets about 20:54 EDT.

Saturn- Southern Sky sets about 01:47 EDT, magnitude +0.5 size 17.6 arc seconds.

Uranus- Rises about 00:13 EDT, magnitude +5.9, size 3.4 arc seconds.

Neptune Rises about 22:36 EDT, magnitude +7.9, size 2.4 arc seconds.

Duck and Cover we've been hit before!



We've been hit before, information taken from the Royal Astronomical Society Handbook 2014 edition list at least 188

known impact crater on the Earth. Sixty have occurred in North America, 28 in the U.S.A, 31 in Canada and 1 in Mexico. The craters range from 118 feet (36 meters) in Alberta to 93 miles (150 km) for Chicxulub, Mexico. The Tunguska event in Siberia in 1908 is considered to be an air burst.

A private think tank foundation called "B612" using information released by the Nuclear Test Ban Treaty Organization found that between 2000 and 2013 there have been 26 explosions on Earth ranging from 1 to 600 kilotons. All of these explosions were caused not by nuclear explosions but by meteor impacts and air burst.

The amount of energy used by the first atomic bomb dropped on Hiroshima in 1945 was equivalent to 15 thousand tons of TNT (15 kilotons). Last February 15, 2013 in Chelyabinsk, Russia a meteor about 65 feet (20 meters) exploded (air burst) at an altitude of 18.5 miles (97,400 feet), the estimated amount of energy was 500 kilotons of TNT. The blast injured about 1,500 people and damaged over 7,100 buildings in multiple cities. This was 33x greater than the first atomic bomb. Following the air burst parts of the meteor crashed into a nearby lake and parts of the Impactor were recovered weeks later.

The meteor crater in Arizona was caused by space rock about 160 feet wide (50 meters), it made a 4,000 foot wide by 570 feet deep crater. This was estimated to be 2.5 megatons, 150x the first atomic bomb.



July 2014

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1	2 7:30 pm Meeting @ Coffman's	3	4	5 Harrisburg East PA Ham & Electronics Fest & Convention
6	7	8	9 8 pm 10 M Net	10	11	12 IARU HF Champion- ship Contest
13 IARU HF Champion- ship Contest	14	15	16 7:30 pm Meeting @ Coffman's	17 ARRL Centennial Convention	18 ARRL Centennial Convention	19 ARRL Centennial Convention
20 BRATS Computer Fest Howard Co	21	22	23 8 pm 2 M Net	24	25	26
27	28	29	30 8 pm 70 CM Net	31		