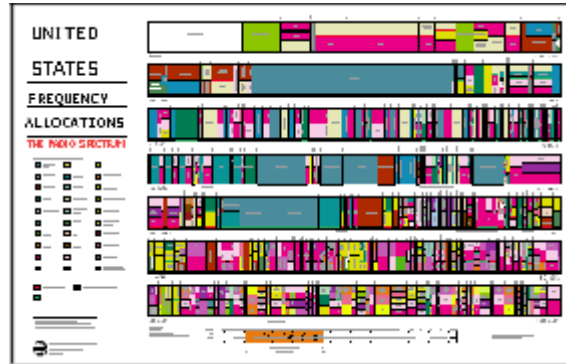


THE AERO AERIAL



The newsletter of the Aero Amateur Radio Club
Middle River, Md
Volume 7 Issue 5
May 2010

Editor Frank Stone AC3P

Officers

Joe Miko	WB3FMT	President	Repeater
Bob Venanzi	ND3D	Vice-President	VE Testing
Frank Stone	AC3P	Recording Secretary	Public Service
Pat Stone	AC3F	Corresponding Secretary	ECOMMS
Warren Hartman	W3JDF	Treasurer	Contests
Ken Lea	KB3JVP	Property Mgr	Trustee

Committees

Phil Hock W3VRD
Pat Stone AC3F
Bob Landis WA3SWA
Joe Miko WB3FMT
Bob Venanzi ND3D
Frank Stone AC3P

ABOUT THE AERO AMATUER RADIO CLUB

Meetings: First and Third Wednesdays at 7:30 pm at Coffman's Diner
(Middle River and Orem's Rd.)

Nets: See Local Area Net Schedule

Repeaters: W3PGA (147.24 MHz - / 449.575 MHz -)

WEBSITE: www.aeroarc.us

LOCAL AREA NETS

Day	Time	Frequency (MHz)	NET NAME
Daily	9 – 10 am	147.03	ORIOLE Net
Daily	5:30– 6 pm	3.820	Maryland Emergency Phone Net
Daily	6:30 – 7 pm	146.670	Baltimore Traffic Net
Daily	7 pm and 10 pm	3.643	Maryland/DC/Delaware Traffic Net
1 st Tues	7:30 pm	145.330	Baltimore ARES Net
2 nd Tues	7:30 pm	146.670	Baltimore County <u>RACES</u> 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

The Aero Quantum Mechanics Net: Anytime any Frequency contact WB3FMT. The last one was on 449.575 MHz on Tuesday 8 pm on March 30'. Who knows where or when the next one may be?

Net Reports

2 Meter Net: WB3FMT(NCS) AC3P KA3SNY KB3JDE W3JEH W3VRD AC3F

70 Cm Net: WB3FMT (NCS) ND3D W3JEH KB3JDE

10 Meters: WB3FMT(NCS) WA3TAD AC3P W3JEH KA3SNY K3ROJ

Station Activities

Contrary to popular myth, **KA3OUT** will not be the last Advanced Class Operator. Congrats ,Tony. **KB 3JDE** is trying to get the hang of APRS. Little known secret to success more watts and good external antenna. Georgianne, **KB3PGN** was last seen escaping the Annapolis Asylum. Congratulations to **AC3P** on 10 years of service as a club officer. Frank is looking forward to his approaching sabbatical.

QST QST QST

Aero Election Day is Wednesday May 19. The train leaves at 7:30 pm from Coffman's Station. Be there.....AR



Looking for Help Martin Airport Special Event



This year marks the 80th Anniversary of Martin State Airport. In 1929 Glenn L. Martin purchased the land in Middle River to locate his aircraft company and with it an airfield to test the company's prototypes.

The original airfield in 1930 was a landing strip that ran parallel to Eastern Boulevard. With the expansion of the Martin Co. plant the alignment of the airstrip was changed and the present control tower was built. The airfield was the largest privately owned airport in the world.

During its time as a company testing strip, such aircraft as the B-26 Murauder, B57D Canberra, and Martin 202 Airliner were seen on the tarmac. Departing also from this airfield was the "Pregnant Guppy" Air Force cargo plane with Gemini-Titan rockets bound for Cape Canaveral.

As time passed the airport was sold to the State of Maryland and now is used for General Aviation, Lockheed-Martin Corporate flights, Maryland State Police Medivac, Baltimore City and County Police choppers, local TV helicopters and is home to the Maryland National Air Guard.

In celebration of the airport's great history, the Aero Amateur Radio Club will hold a special event on the weekend of May 1-2. The club has obtained permission to use the callsign W2W for this weekend event. Operators are needed to help keep the call on the air. Contact Frank AC3P either at a meeting or by email to ac3p21220@yahoo.com.

VE Corner *by AC3F*

The club VE team had a very successful test session on March 20th at the White Marsh Library. Seven applicants arrived to take various exams. The result was four new Amateurs and two upgrades.

Congratulations go to new Techs, Bob KB3UFI, Charles KB3UFK, Tom KB3UFL and new General KB3UFJ. Congrats also to James KB3SZO and Joe N3MCQ on upgrading to General and to Tony KA3OUT on achieving the Extra Class.

A Thank-you to our VE Team; Joe WB3FMT, Dave KB3KRV, Bob ND3D, and Frank AC3P for making this test session a great success.

Public Service Opportunity

Fellow Chesapeake Challenge BikeMS/WalkMS Amateur Radio Volunteers,

Thanks for your interest in providing Amateur Radio communications support for the 2010 Multiple Sclerosis Chesapeake Challenge BikeMS on May 22-23. The MS Society will again hold its two-day Challenge WalkMS and BikeMS at Washington College in Chestertown, Maryland. Bike MS will be held in Chestertown and surroundings on Saturday and Sunday.

Challenge Walk MS will be held on Kent Island on Saturday, and in Chestertown on Sunday. Here is some information on the event, logistics, and the communications support for the event.

We are still in need of amateurs for route support vehicles (SAG). This invitation is open to all amateur radio operators, especially in the Baltimore-Washington area, and Kent/Queen Anne's/Anne Arundel counties. You do not have to be affiliated with an amateur radio organization or club to volunteer for this event.

The Maryland MS Society will provide volunteers from out of town with free dorm rooms at Washington College on Friday and Saturday nights, and free meals on Saturday and Sunday. If you want to come to Chestertown or Kent Island but do not have transportation; do not have a 2-meter mobile radio; do not want to drive during the event; or if the cost of motor fuel for the weekend is an issue, please contact me.

Some of you will begin arriving at Washington College in Chestertown on Friday. Ian N3CVA and I will arrive at Washington College on Friday afternoon.

Ed Rosen N3GXH (me) will coordinate BikeMS on Saturday and Sunday. For more info on BikeMS, contact me by email to n3gXH@arrl.net or by phone at 410-965-8498.

ND3D and the ARRL International DX Contest – CW ND3D

During the weekend of February 19, Bob ND3D was invited back to the award winning contest station W4RM in Nokesville Virginia to participate in the 2010 running of the ARRL DX CW Contest. As a *Multi Two* contest entry, the W4RM team racked up over 5200 Q's and 477 multipliers for a claimed score of some 7.5 million points. The team is hopeful this score will better their 2009 effort which netted 15th overall among over 3,000 entries in the world! Operating nearly 18 hours over three (3) shifts, Bob had many good runs working pileups from Europe, Russia, and Japan.

The station sports Yeasu FT-1000 MP gear, Alpha 99 amps, a 110 foot tower and an assortment of beams including stacked Force C31XRs and inverted L's. Reception on 160 and 80 meters is enhanced by the use of multiple 580 foot beverage antennas which are switchable from each operating position and can be shared among the operators through a unique switching facility developed and built by several of the team members. N1MM contest logging is used. There is a master computer which is used for monitoring band conditions for band changes and monitoring for multipliers. Bob hopes to rejoin the W4RM team for more fun in next year's contest.

Ham Radio In The Newsreels KA3OUT

Amateur Radio in 1950's Newsreel

Radio Amateurs feature in some classic British Pathe newsreels from over half a century ago.

1959 - Caravan Man - Parkstone, Dorset

About radio amateur William Knott G3BM who built the largest caravan manufacturing business in the world.

<http://www.britishpathe.com/record.php?id=2>

1959 - Surgeons dash to save boy - Accra Ghana

How a radio amateur summoned help for 8 year old Rami Kaatz seriously injured after a car accident

<http://www.britishpathe.com/record.php?id=41703>

1957 - Hundreds die in hurricane Audrey - Louisiana and Port Arthur, Texas

Brief clip of Amateur communications in the aftermath of a devastating hurricane

<http://www.britishpathe.com/record.php?id=66762>



May 2010

							W2W Special Event 9 am - midnight 1
2	3	4	Meeting Coffmans 7:30 pm 5	6	7	8	
9	10	11	10 Meter Net 28,445 Mhz 8 pm 12	13	14	15	
16	17	18	Meeting Coffman's Elections of Officers 7:30 pm 19	20	21	22	
23	24	25	2 Meter Net 147.24 Mhz 8 pm 26	27	28	29	VE Testing White Marsh 1 PM CQ WPX Contest
CQ WPX Contest Md FM Assoc Hamfest Howard Co. Fgnds 30	31						

From the Skies over Mt. Essex

50 Years of Amateur Astronomy

SKY Events for May 2010

- May 4th Last Quarter Moon
- May 13th New Moon
- May 16th Moon passes 0.8° N of Mercury at 1pm EDT.
- May 20th First Quarter Moon
- May 25th Mercury at greatest Western elongation (25° West of the Sun) 10 pm EDT.
- May 27th Full Moon
aka "Flower Moon"

Planet Lookout

- Mercury** – Hidden in the Sun's glare.
- Venus** - Very bright Evening Star in the West at Sunset.
- Mars** – Yellow/Orange in Leo the Lion, High in the West after dusk.
- Jupiter**- A bright point of light in the Eastern sky during the morning dawn.
- Saturn**- High in the Southwest at Dusk.

How Far Away is the Horizon?

This calculation should be taken as a guide only as it assumes the earth is a perfect ball 6365 km radius. It also assumes the horizon you are looking at is at sea level. A triangle is formed with the centre of the earth (C) as one point, the horizon point (H) is a right angle and the observer (O) the third corner. Using Pythagoras's theorem we can calculate the distance from the observer to the horizon (OH) knowing CH is the earth's radius (r) and CO is the earth's radius (r) plus observer's height (v) above sea level.



Sitting in a hotel room 10m (33 feet) above sea level a boat on the horizon will be 11.3km (6.8 miles) away. The reverse is also true, whilst rowing across the Atlantic, the very top of a mountain range 400m (1,313 feet) high could be seen on your horizon at a distance of 71.4 km (44.4 miles) assuming the air was clear enough.

In fact, this latter result (for English units) is nicely summed up by the **old rule** that 7 times the height in feet is 4 times the square of the distance to the horizon in miles; i.e., distance to horizon (miles) = $\sqrt{7 \times h \text{ (feet)} / 4}$.

Feet Altitude	Miles To Horizon
3	2.12
6	3.00
20	5.4
40	7.7
80	10.9
100	10.9
300	21.2
1,000	38.7
5,000	86.6
25,000	193.6