

THE AERO AERIAL



Congratulations New Extra KB3LJF

The newsletter of the Aero Amateur Radio Club
Middle River, Md
Volume 9 Issue 7
July 2012

Editor Frank Stone AC3P

Officers

Joe Miko	WB3FMT	President	Repeater
Bob Venanzi	ND3D	Vice-President	VE Testing
Lou Kordek	KB3LJF	Recording Secretary	Public Service
Pat Stone	AC3F	Corresponding Secretary	Webmaster
Warren Hartman	W3JDF	Treasurer	Trustee
Ron Distler	W3JEH	Resource Coordinator	Club Nets
			Contests

Committees

Phil Hock	W3VRD
Pat Stone	AC3F
Bob Landis	WA3SWA
Al Alexander	K3ROJ
Frank Stone	AC3P
Joe Miko	WB3FMT
Bob Venanzi	ND3D

ABOUT THE AERO AMATEUR 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 -)
W3JEH (223.84 MHz -)

LOCAL AREA NETS

Day	Time	Frequency (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 and 10 pm	3.643	Maryland/DC/Delaware Traffic 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

Aero Net Reports

May

10 Meters: WB3FMT(NCS) KA3SNY AC3P

2 Meters: WB3FMT(NCS) AC3P KB3EK WA3SWA

70 Centimeters: WB3FMT(NCS) AC3P KB3LJF

Station Activities

KA3QAX has the hand-held scanner working. **W3VRD** is on sea duty. School's out and **AC3F** is enjoying it. After getting good pictures of the Venus Transits of 2004 and 2012, **AC3P** and **WB3FMT** are making reservations for the next one in 2117. Maybe settling for Mercury in 2016 is more realistic.

Inauguration 2012



During the June 6 meeting, President Joe, WB3FMT, took "the oath of office" on behalf of all re-elected club officers. Joe *solemnly* intoned "I Promise" with his right hand on a picture of Marconi.

VE Corner *by AC3F*

The May 19th test session saw three applicants take exams. Congratulations to Lou Kordek, **KB3LJF**, on upgrade to Extra. Welcome to new amateur Technician Kristen , **KB3YTZ**. Thanks to VE's **AC3P** and **WB3FMT** for their help. A special thank you to Georgeann, **KB3PGN**, for coming out to help.

Testing to Return To White Marsh

Beginning with the September Test Session, VE exams will return to the White Marsh Branch of the Baltimore County Public Library. Testing at White Marsh will be on the following Saturdays:

September 22
November 24
2013
January 26
March 23
May 11.

All test sessions will begin at 1 p.m.

Contact: Pat Stone, AC3F
410-687-7209
ac3f@juno.com
www.aeroarc.us/vetesting.html

It's all Bob's Fault by WB3FMT

It stated out innocently enough on May 6th, 2012, we were all at the first of two monthly meetings the Aero ARC has at Coffman's, and were talking about the upcoming Field Day activities. A topic was brought up about using the laptops to record contact information, the club has done this for several years. Thanks to Bob WA3SWS we had been networking a number of laptops for a number of past FD events. The other Bob ND3D expressed concerns about contest logging and operating. He suggested that radios be equipped with foot switches as the Push to Talk (PTT) rather than the handheld microphone this would make logging easier.

Since the club uses members radios for FD and not everyone has or uses a foot switch, I thought it would be a good idea to make one for my ICOM 706MKIIG which will be lent for use on FD. Following the Wednesday meeting, I went home to see if I could buy a foot switch and its subsequent connector for the IC706. I already had the Boom headset w/PTT, it was the Heil "Traveler Boomset for the 706". This headset/mike plugs into the mic connector of the IC706 through the use of an 8 pin modular plug (the same as a CAT5e cable), the headset connects to the modular plug via the use of an 8



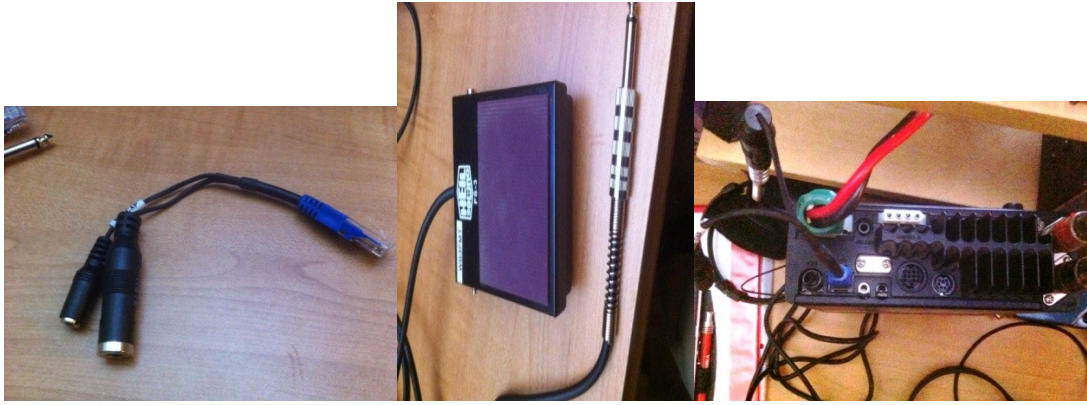
pin round plug.

This is a single plug connection not a separate mic and headset is all wired into the 8 pin round connector.



Upon checking on the Internet, using ICOM706 workgroups, I finally found where someone made a patch box using the CAT5e cable and connected to a utility box and had separate jacks for mic, speakers and PTT. This looked like a good idea, since my small paws don't do well in small places. I knew that this was going to require several trips to the local Radio Shack and also to Baynesville Electronics in Towson, MD.

A few days later during a breakfast meeting with Warren W3JDF and Ken KB3AX, schemes, parts and how to, were discussed. I even sent an email to ICOM requesting tech information about using the other mic connector, the one on the back of the radio. In the ICOM manual it states not to connect two mic at the same time, but nowhere does it explain why. Well at the meeting I brought schematics for the ICOM 706MKIIG for Warren to look at. And he found out why you should not connect two mic ant the same time, you would get stereo or at best unwanted background noise, when either mic is keyed they both go live.



He said that he has an ICOM706 and uses the “Pro” headset and all that he needed was an adaptor that would plug into the rear mic jack and it would allow for a ¼ phone jack connector and also a mini jack ear phone. Later that day Warren sent me an email and giving me the part number and product description of the connector (already build), I promptly ordered two one for me and one for Warren. His was delivered about 3 days later mine was backordered it came in two weeks. I eagerly connected the “AS11COM Cord for Icom Modular –BM10ICOM/Prosetic” and it works like a charm. The cost of the Foot switch FS-3 by Heil from HRO was \$35.90 w/ shipping and the AS11COM connector from R\$L Electronics cost \$25.09 w/shipping. A small point to remember please check with your local radio club before going whole hog into a project and remember the abbreviation KISS, Keep It Simple Stupid..... The breakfast meeting kept my fat fingers out of trouble.

73
Joe WB3FMT

Directions to Essex Skypark Field Day 2012.

The Skypark is located at 1401 Diffendall Road, in Essex Maryland. It is approximately 4.6 miles south of intersection of Eastern Boulevard MD 150 and Stemmers Run Road.

From Eastern Blvd. and Stemmers Run road go South on Stemmers Run Road it turns into Back River Neck Road. Stay on Back River Neck Road for approximately 4.1 miles you will see an Airport sign Essex Skypark. Make the right turn go about ½ mile the Field Day site is on the right just before the parking lot.

You can also reach the Airport by taking Baltimore Beltway I695 past exit 35 or JFK I95 (exit 33SB or 64NB) and going toward Essex. After passing Pulaski Highway RT 40 (exit 35) stay in the left lane and take RT 702. Stay on RT 702 till the end it runs into Back River Neck Road. Go about 1.6 miles and you will see the Airport sign on the right. Make a right turn an go about ½ mile. The site is on the right.

If you plan a fly-in the Airport’s FAA designation is W48, located on the Washington Sectional and is 3 nm SE of Baltimore City. Use CTAF/UNICOM 122.7.



July 2012

1	2	3	No Meeting  4	5	6	7
Valley Forge PA Hamfest www.marc-radio.org 8	9	10	10 Meter Net 28.445 Mhz. 8 pm 11	12	13	IARU DX Contest 14
IARU DX Contest 15	16	17	Meeting Coffman's 7:30 pm 18	19	20	CQ Worldwide VHF Contest 1800utc - 2100utc Saturday-Sunday 21
BRATS Hamfest Howard Co. Fairgrounds 22	23	24	2 Meter Net 147.24 Mhz 8 pm 25	26	27	28
29	30	31				

SKY Events for July 2012

July 1st – Mercury greatest elongation East 26°

July 3rd - Full Moon “**Time of Much Ripening**” for the Native American Mohawk tribe and the “Moon of Claiming” for the Celts.

July 4th – **Happy Birthday America CCXXXVI**, Earth at Aphelion 94,505,851 mi from the Sun, on Jan 4th it was 91,405,967 mi from the Sun. 3.1 million miles difference.

July 11th- Last Quarter Moon

July 12th – Venus a greatest brightness Magnitude -4.7

July 14th – Jupiter is 0.5° of the Moon at 23:00 EDT

July 18th -New Moon

July 20th – Mercury is 0.5 North of the Moon 04:00 EDT

July 25th – First Quarter Moon and Spica is 1.2° N of the Moon

Double transits of Jupiter shadows or moons occur on the following dates:

7/14/12	06:45UT	02:45 EDT
7/14/12	08:45 UT	04:45 EDT
7/17/12	20:15UT	16:15 EDT
7/17/12	21:55 UT	17:55 EDT
7/21/12	09:52 UT	05:52 EDT
7/21/12	10:54 UT	06:54 EDT
7/24/12	22:49 UT	18:49 EDT
7/24/12	23:50 UT	19:50 EDT
7/28/12	11:46 UT	07:46 EDT
7/28/12	12:52 UT	08:52 EDT
7/30/12	07:27 UT	03:27 EDT
7/30/12	07:30 UT	03:30 EDT

Planet Lookout at mid-Month

Mercury-In evening twilight, Mag +1.9 Size 10.4 arc sec

Venus – Early dawn, Mag -4.7 Size 35.9 arc sec

Mars –SW at Dusk, Mag +1.0 Size 6.2 arc sec\

Jupiter- In Dawn above Venus, Mag -2.1, Size 34.8 arc sec

Saturn- SW sky left of Mars, Mag +0.8, Size 17.2

Uranus- Rises around midnight, Mag +5.8 Size 3.5 arc sec

Neptune –Morning sky, Mag+7.8Size 2.5 arc sec.

Transits of Jupiter’s Moons

Transits or Solar eclipses on Jupiter occurs when any of the moons of Jupiter pass in front of the Sun as seen from the planet Jupiter. For moons which appear smaller in apparent diameter than the Sun, it would be a transit. Like the upcoming transit of Venus on June 5, 2012 as seen from the Earth. For moons which are larger than the apparent size of the Sun, an eclipse of the Sun would occur.

Per a Wikipedia article, there are 5 Jovan moons capable of eclipsing the Sun: Amalthea, Io, Europa, Ganymede and Callisto. All of the others are too small or too distant or orbit inclinations too great, to be able to completely occult the Sun, so can only transit the Sun. Jupiter Moon information is taken from the RASC Observer’s Handbook 2012.

Moon	Diameter mi / km	Distance form Planet mi / km	Orbital Period
Amalthea V	103 mi 167 km	112,592 mi 181,200 km	0.498 days
Io I	2,263 mi 3,643 km	262,218 mi 422,000 km	1.769 days
Europa II	1,939 mi 3,122 km	417,002 mi 671,100 km	3.551 days
Ganymede III	3,269 mi 5,262 km	664,867 mi 1,070,000 km	7.155 days
Callisto IV	2,995 mi 4,821 km	1,170,042 mi 1,883,000 km	16.689 days

When the four largest satellites of Jupiter, the Galilean satellites, (Io I, Europa II, Ganymede III or Callisto IV) transit the Sun, either a shadow transit or the actual moon can be seen against the surface of Jupiter. A telescope of at least 60 millimeter or 2.3 inches can see the transit from Earth. It will look like a black dot crossing the face of Jupiter, using a larger telescope 1553 mm or 6 inches you should be able to detect the actual moon crossing the planet. The moon will be either preceding or preceding the darker transit spot. The moon will appear to be brighter than the surface for the planet.

During the month of July 2012 there are 6 double shadow or satellite transits on Jupiter. During August 2012 there are 10 such events. Additional information can be found in the RASC 2012 Observer’s Handbook page 107.

IMMEDIATE RELEASE:

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June 7, 2012

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Public Invited to Attend

Star-Spangled Aircraft Display and Festival

In Southeast Baltimore County

Baltimore County Executive Kevin Kamenetz, the Baltimore County Council, and the Maryland Aviation Administration are pleased to invite the public to attend the Star-Spangled Aircraft Display and Festival at Martin State Airport, 701 Wilson Point Road, in Middle River. The two-day event will be held from 10 a.m. to 5 p.m. on Saturday June 16 and Sunday June 17. Admission to the festival and parking at the Lockheed Martin lot on Eastern Boulevard with shuttle service is free.

The aircraft display is an integral part of "Star-Spangled Sailabration" - the series of events in the Baltimore region that kick off the War of 1812 bicentennial commemoration in Maryland. Visitors to Martin State Airport will see a variety of aircraft on "static" display, including modern planes from the U.S. Navy, Maryland Air National Guard, and U.S. Coast Guard, as well as vintage aircraft held by the Glenn L. Martin Aviation Museum. Aircraft to be on display include the FA-18, E-2c Hawkeye, and A-10 Thunderbolt.

The airport will be the take-off and landing area for all aircraft participating in the air show that will feature flight maneuvers over the waters of Fort McHenry. (The maneuvers over Fort McHenry will not be visible from Martin airport.) The Blue Angels, the U. S. Navy's Flight Demonstration Squadron, will be headlining the air show. The Blues (weather permitting) will be available at the airport for autographs in the afternoon at the conclusion of their flight routine.

The open house and festival area at Martin State Airport will feature a variety of fun and refreshing summertime fare, historical exhibitors associated with Baltimore County's War of 1812 heritage, armed forces recruiters and displays, a sophisticated Navy flight simulator, model aircraft exhibits, and merchandise. In addition, the Glenn L. Martin Aviation Museum will have a display tent outdoors and direct visitors to its captivating museum space inside the airport.

About Star-Spangled Sailabration

Star-Spangled Sailabration is the national launch of the War of 1812 bicentennial. An international maritime and air festival in the Baltimore region and the Chesapeake Bay, this week-long event will feature dozens of tall ships

and naval warships; the premiere of a new symphonic work; and the Star-Spangled Air Show, featuring the U.S. Navy Blue Angels. To learn more, visit www.starspangled200.com.

Star-Spangled Sailabration is presented by Star-Spangled 200 Inc., the U.S. Navy and Operation Sail Inc. in partnership with the city of Baltimore, the Baltimore Office of Promotion and the Arts, Baltimore County, the Maryland Aviation Museum, Fort McHenry National Monument and Historic Shrine, the Maryland Office of Tourism Development, Maryland War of 1812 Bicentennial Commission, Sail Baltimore, and Visit Baltimore. Star-Spangled 200 is presented by AT&T. Founding partners to date include Constellation Energy and Papa John's Pizza.