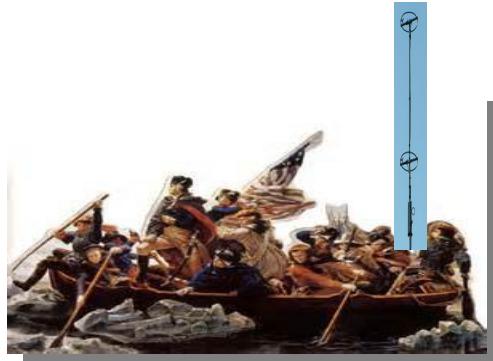


THE AERO AERIAL



The newsletter of the Aero Amateur Radio Club
Middle River, Md
Volume 11 Issue 2
February 2014

Editor Frank Stone AC3P

Officers

Joe Miko	WB3FMT	President
Bob Landis	WA3SWA	Vice-President
Lou Kordek	AB3QK	Recording Secretary
Frank Stone	AC3P	Corresponding Secretary
Warren Hartman	W3JDF	Treasurer
Ron Distler	W3JEH	Resource Coordinator

Committees

Repeater	Phil Hock W3VRD
VE Testing	Pat Stone AC3F
Public Service	Bob Landis WA3SWA
Webmaster	Al Alexander K3ROJ
Trustee	Frank Stone AC3P
Club Nets	Joe Miko WB3FMT
Contests	Bob Venanzi ND3D
FAR Representative	Charles Ester III KC3ANJ

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	145.33	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 REPORT

28.445 MCs: AC3P(NCS) W3JEH W3VRD KA3SNY WB3FMT

No other Nets for December.

Station Activities

AC3F and **AC3P** greeted the New Year with Straight Key CW. Best of luck to Ed Larsen, **W3PG**, his move to Florida. After **KB3PGN** scored another successful performance on Christmas Eve, Georgeann returns to the asylum in Annapolis. Congratulations to **ND3D** on winning the Yaesu FT-60 raffle.

Dues Are Due

It's that time again. Treasurer Warren wants you. The club dues are due at the first meeting in January. Due for 2014 remain at \$24 for regular membership and \$2 for family members.

Aerial Archives

2004 – Ten Years

A Map showing member's locations.

A list of pertinent ham radio Website.

The Pioneer Repeater goes QRT.

2009 – Five Years

Speculating the possibility of TVI with the new digital televisions.

Races activities during the Presidential Inauguration.

A trip through the Wayback Machine with the Drake Novice Station.

Get Out Those Pink Floyd Albums



Over the years the AERO ARC has held many a Blue Moon Net. The Blue Moon can occur when either there are two full moons in a month or four full moons in a season.

In last month's "Skies Over Mt. Essex" article, Joe, WB3FMT, stated that just as there can be two full moons in a month, the same is true for New Moons. The second New Moon for January occurs on the 30th.

Ed Note: Although This is the February Aerial, some January Dates are included as newsletter is published in the beginning of the month.

In keeping with the Blue Moon tradition, the club will hold a "The Dark Side of the Moon Net" at 8 p.m. January 30th on the 223.84 Mhz. Repeater.

Club Website

Club Webmaster, Al **K3ROJ**, reports that the company that is hosting the website has raised its fees to \$1800 per year.

This cost is too expensive to continue. Al is currently looking for a new host. If anyone knows of a less expensive company, please contact Al at k3roj@comcast.net.

More Contests

With cold weather, the Contest Season is in full swing.

During the second weekend in December the ARRL 10 Meter Contest saw the band open for both days. Aero members, ND3D, AC3F and AC3P were on their mikes and keys to join the fun.

Bob reported :

ND3D

Band	Mode	SOs	Pts	Mult
28 Mhz	CW	157	628	64
28 Mhz	USB	28	56	12
Total		185	684	76 Score: 51,984

Frank and Pat:

AC3F

Band	Mode	QSOs	Pts	Mult
28 Mhz	CW	9	18	8
28 Mhz	USB	3	3	3
Total		12	21	11 Score: 462

AC3P

Band	Mode	QSOs	Pts	Mult
28 Mhz	CW	41	82	10
28 Mhz	USB	108	108	44
Total		149	190	54 Score: 20,520

But Wait, There's more.....

ND3D enjoyed operating W3LL in the Stew Perry 160M Contest on December 28, 2013.

538 Qs were made for 2,291 points during 13 operating hours. Final score is computed by the contest sponsor who adds multipliers for contacts made with low power and QRP stations.

Extra points are awarded to each QSO depending upon the distance between the stations completing the QSO; the greater the distance, the greater a QSO is worth. Longest distance contact was with VK6VZ, some 18,000 km away! Other long distance contacts were made with stations in the Ukraine (8,300 km) and Hawaii (7600 km). 454 QSOs were made with US stations, 31 with European stations.

The fine 160M equipment at W3LL includes a Shunt-Fed 90' tower top loaded with SteppIR MonstIR opened to 40M, 60 X 120' radials, 800' NE/SW reversing Beverage and 600' NW/SE reversing Beverage. Many thanks to Bud for opening W3LL for this contest.

Aero Earth-Moon-Earth Project

Due to the weather, the Aero Lunar Program has slowed. It has been decided that the antenna array will be constructed at Warren's QTH since it will need to remain at a specific site for an extended time.

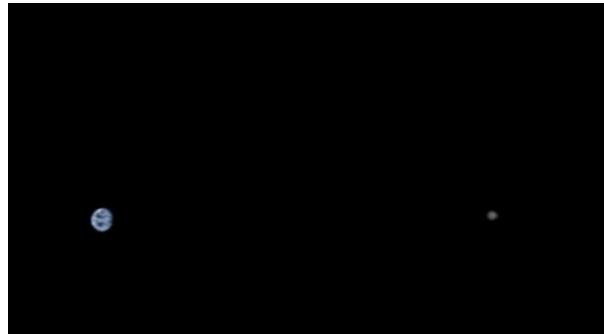
Joe WB3FMT is working on possible 2014 dates for the attempt to reach the moon..

Two Meter Repeater Down

Phil, W3VRD, reported that the .24 repeater receiver fell victim to "The Polar Vortex" during the January cold snap. The temperature at Kenwood dropped so low that the squech circuit failed causing the repeater to transmit noise on the frequency. Phil has shut the repeater down pending return from a pre-scheduled trip.

The 449.575 MHz. repeater continues to operate well.

Juno Experiment Success



Earth-Moon as seen by JUNO (NASA)

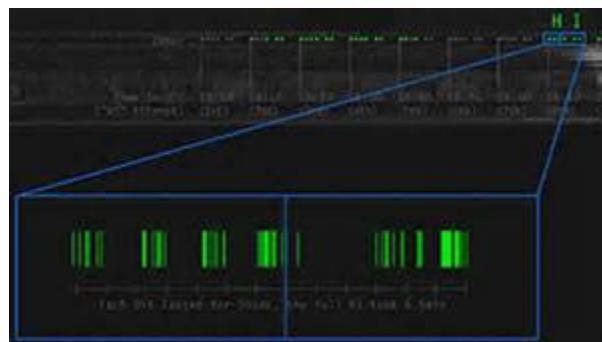
As reported in the December Aerial, on October 9, 2013, at the request of NASA's Jet Propulsion Laboratory, amateur radio ops from around the world said "Hi" to the Juno spacecraft as it flew by Planet Earth en route to Jupiter.

The experiment was to provide an electromagnetic signal source to calibrate scientific instruments on board Juno. For 2 ½ hours amateur operators sent "HI" in CW on 10 meters.

The Aero Amateur Club was represented in this endeavor by Frank AC3P and Pat AC3F who sent signals alternately using their own call signs as well as W3PGA.

On December 12, 2013 NASA released a statement about the results from the test.

According to Don Kirschner KD0L, principal scientist of the WAVES Project, on its approach to Earth, Juno was able to detect the first three dits of an H at the noise threshold from about 23,250 miles. During the flyby Juno then went into "SAFE" mode and no further data could be detected.



Data Stream of Amateur Signals detected by JUNO (NASA)

From the Skies over Mt. Essex

SKY Events for February 2014

Feb 2nd – Mars is 4.4° North of Spica.

Feb 6th – First Quarter Moon

Feb 14th - Full Moon Moon “**Moon of Ice**” for the Celtic and the “**Full Snow Moon**” Traditional Full Moon Names.

Feb 21st - Saturn is 0.3° N of the Moon

Feb 22th - Last Quarter Moon

Feb 26th - The Moon is 0.4° North of Venus.

Feb 27th - Mercury is 2.9° South of the Moon.

Planet Lookout at mid-Month

Sunrise 06:58 EST and Sunset 17:43 EST

Mercury in the Morning Sky, magnitude +4.3; 10.3 arc seconds

Venus in the East at sunrise magnitude -4.6 and 40.7 arc seconds.

Mars Rises after 22:00 EST, magnitude +0.1 and 10.1 arc seconds wide.

Jupiter Visible all night, magnitude -2.5 size 44.1 arc seconds.

Saturn Rises after midnight. Magnitude +0.5 size 17 arc seconds.

Uranus In the West sets by 21:00 EST. Magnitude +5.9 size 3.4 arc seconds.

Neptune Also in the West sets by 18:00 EST. Magnitude +8.0 size 2.4 arc seconds.

Stars and Paintings a Tail of Dante and van Gogh

Both Dante and van Gogh had an appreciation of the stars, for Dante it was in the Divine Comedy and for van Gogh in his painting.

Durante degli Alighieri, simply referred to as **Dante** (1265–1321), was a major Italian poet of the Middle Ages. © Wikipedia



In the poem “The Divine Comedy, the end of each section Inferno (Hell), Purgatorio (Purgatory), and Paradiso (Paradise), The word “stars”, with which each of the three canticles closes, indicates the constant aspiration of the poem, and the soul whose journey it depicts toward the highest things. Footnote 9 pg 189 “The Carlyle-Okey-Wicksteed Translation Unabridged c 1950 Random House.

Inferno – The Guide and I entered by that hidden road, to return into the bright world; and, without caring for any rest, we mounted up, he first and I second, so far that I distinguished through a round opening the beauteous things which Heaven bears; and thence we issued out, again to see the Stars.

Purgatorio – I came back from the most holy waves, born again, even as new trees renewed with new foliage, pure and ready to mount to the stars.

Paradiso – To the high fantasy here power failed; but already my desire and will were rolled-even as a wheel that moveth equally-by the Love that moves the sun and the other stars.

Vincent Willem van Gogh (30 March 1853 – 29 July 1890) was a Dutch post-Impressionist painter whose work, notable for its rough beauty, emotional honesty and bold color, had a far-reaching influence on 20th-century art. After years of painful anxiety and frequent bouts of mental illness, he died aged 37 from a gunshot wound, generally accepted to be self-inflicted (although no gun was ever found). His work was then known to only a handful of people and appreciated by fewer still. At least three of his famous paintings depict stars. As shown below Starry Night, Starry Night over the Rhone (Big Dipper) and the Road with Cypress and Star.



Starry
Night

Starry
Night over
the Rhone

Road with
Cypress and Star



February 2014

							Richmond Frostfest Richmond Va.
1							
2	3	4	Meeting Coffman's 7:30 pm	5	6	7	8
9	10	11	28.445 Mhz Net 8 p.m.	12	13	14	ARRL DX Contest
16	17	18	Meeting Coffman's 7:30 p.m.	19	20	21	22
Vienna Winterfest Vienna Va.	23	24	146.24 Mhz Net 8 p.m.	25	26	27	28