

THE AERO AERIAL

Our Ten Year Anniversary Edition



The newsletter of the Aero Amateur Radio Club
Middle River, Md
Volume 11 Issue 1
January 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: WB3FMT (NCS) W3JEH AC3P

147.24 MCs: WB3FMT (NCS) AC3P W3JEH K3ANG N3KBF AB3SD

Station Activities

W3VRD reports hearing strange emissions on 15 meter PSK-31. **W3JEH** is portable 4. Congrats to **AC3F** and **AC3P** on the arrival of new grandson Sebastian, harmonic of **N3RXD** and XYL, Kara.

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.

Ten Years After

In January 2004 we launched the Volume 1, Issue 1 of *The Aero Aerial* as an experiment to see if a club newsletter was possible. Now with volume 11, issue 1 and some 120 issues later, we see the club 'rag' as a continuing work in progress.

Over the past decade *The Aerial* has chronicled the activities of our members, club involvement in contests, field days, public service events and involvement in emergency communications. We added a regular astronomy-related feature to inform our readers of what goes on in the ether above the ionosphere. The "staff" has had fun in preparing the April editions and the somber duty of reporting the passing of our members, friends of the club and our members' family.

There have been some issues where there were droughts of ideas for articles and others where the newsletter practically wrote itself. All in all there are areas in this experiment that have gone well and others that could use improvement.

The goal looking ahead is for a wider participation from the Aero membership at large in putting together your newsletter.

If you have a project you are working on, jot a few notes down and send them to the editor. Even if you don't think it important or you don't feel you have the time to put together send it in and the staff can build an article from the information. The staff is interested in any technical articles a member could send in.

It's not possible to predict how long into the future this experiment may continue, but we plan to carry on.

The Staff

Remembering MMXIII

Happy New Year! Before we march into 2014, it behooves us to take a look at the previous year.

2013 was a pretty good year for the Aero ARC.

The year kicked off with the annual club contest. In what is becoming a tradition, Bob ND3D won once again allowing him the honor of remaining the Contest Czar.

Also beginning the New Year of 2013 was the VE Testing Program under the tutelage of Pat, AC3F. For the year the club's test sessions accounted for 15 new amateurs and 9 upgrades.

On the public service front Bob WA3SWA continued involvement with various events with the Multiple Sclerosis Society through cooperation with BRATS. AC3F and AC3P helped celebrate the sesquicentennial anniversaries of the Battle of Gettysburg in July and the The Gettysburg Address in November. They also participated in an experiment at the request of NASA's Jet Propulsion Laboratory by transmitting 10 meter CW signals to the Juno spacecraft enroute to Jupiter. The club call W3PGA was also used in the effort. A new public service opportunity surfaced with the Fly-in at Essex Skypark and discussions were held with the Martin Aviation Museum on ways the club might help with their events.

Speaking of Essex Skypark, their facility was home for our Field Day 2013 effort and this time we enjoyed the amenities of a hangar. The club made a respectable showing with 3554 points.

The year brought us new member Charles KC3ANJ and Kelly KC3APF.

Sadly we lost longtime member Bernie K3CXC (SK).

Looking ahead, we hope that 2014 proves to be another good year for the Aero ARC and its members.

HT Raffle

Jim Dilley is offering the club a new Yaesu FT 60R HT. It will be raffled off with the proceedings going to the club. There will be a separate raffle for the HT. Tickets will be sold on two meeting dates, 12/18/13 and 1/8/14. The drawing will be done at the 1/8/14 meeting. The raffle tickets for the radio will be \$5.00 each. Tickets bought on the 18th will be added to the ones on the 8th. This is a separate raffle than the 50/50.

Top Band Contest

The first weekend in December is contest time on 160 meters. Bob ND3D, Frank AC3P and Ron W3JEH were on the air for the fun. Bob ran solo at the W3LL contest station. Bob reports his experience as follows.

ARRL 160-Meter Contest

Call: W3LL

Operator(s): ND3D

Station: W3LL

Class: Single Op HP

QTH: MD

Operating Time (hrs): 18

Summary:

Total: QSOs = 1037 Sections = 75 Countries = 31 Total Score = 264,364

Club: Potomac Valley Radio Club

Comments:

SO1R

Bob ND3D was the operator piloting W3LL.

The P3 was a significant asset in this unassisted category.

Beverages were a big help.

We setup Live Score reporting for the first time. It made me a better spectator rooting for the home team.

This contest puts W3LL over the 100 worked entity mark on 160M.

Equipment:

K3 with Sub Receiver, P3, Alpha 9500,

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.

73,

Bud W3LL

Bob ND3D

Frank brought up AC3P from home and ran the Yaesu FT-950 at 100 watts switching between the Butternut H6V Verical and a Radiowavz G5RV Lite in an inverted vee configuration. AC3P was in the frey for only a total of 5 hours but managed to make 100 Q's with 32 ARRL/RAC Section multipliers for a claimed score of 6400 points.

Ron W3JEH was on the band for a short time on Saturday with a longwire antenna at 100 watts. He was able to make 20 Q's from 12 different Sections for a score of 480.

Regardless of score, operating Top Band is always fun. As Ron observed, "The band sounded like Field Day".

Aerial Archives

2004 – Ten Years

A look back at 2003 with mention of Club ECOMM participation during Hurricane Isabel. Reviewing the Yaesu FT-8900 transceiver.

2009 – Five Years

Celebrating our 5th Anniversary. The demise of analog broadcast TV. Club hats.

Aero Contest 2014

33 DAYS AND 33 NIGHTS OF FUN

REVISED November 20, 2013

When: 0000 UTC Wednesday 01 January 2014 (1900 EST Tuesday 12/31/13) to 2359 UTC Sunday, 02 February 2014 (1859 EST Saturday 2/02/14)

Eligibility: All current AERO members.

Station: You may operate from any amateur radio station...from your home, a guest's home, terrestrial mobile, maritime mobile, aeronautical mobile, here or abroad. A station may even be operated remotely!

Bands & Modes: Work any legal mode and band allowed by your license class. Echo Link and IRLP contacts are not permitted. Repeater contacts are OK.

Scoring:

- One (1) point per CW contact.
- Two (2) points per AM contact
- Three (3) points per SSB or FM contact
- Four (4) points per RTTY contact
- Five (5) points per DIGITAL contact
- Six (6) points per SSTV contact
- Ten (10) points per ATV contact

Bonus Points:

Any contact via remote operation	100 points per contact
Any contact above the 70 cm band	250 points per contact
Any satellite contact	500 points per contact
Any EME (earth-moon-earth) contact	1000 points per contact per team member
Any HAR (high altitude ballooning mission)	100K points per mission per team member

Other Info: The same station may be worked any number of times. Winner(s) of this contest will run the contest next year.

Results: E-mail log sheets to nd3d at arrl.net by Sunday February 9, 2014. Contest results will be reported at the February 20, 2014 meeting of the AERO Club!

HAVE FUN - - TRY SOMETHING NEW !

T-MARC November 2013

Applications in Process:

KA4DCS: Received request for change of frequency to un-published UHF repeater in Washington, D.C. Sent Notice of Proposed Coordination for UHF pair to neighboring coordination groups. Sent Construction Coordination for un-published pair in Washington, D.C.

Sussex ARA: Received application for move of 145.2500 from Bethany Beach to Selbyville, Delaware. Sent Notice of Proposed Coordination to neighboring coordination groups. Sent Construction Coordination for move to Selbyville, Delaware.

E-STAR Reagan: Received Application for Coordination for narrowband VHF pair in Washington, D.C. Sent Notice of Proposed Coordination to co-channel and adjacent channel systems in TMARC area and also to neighboring coordination groups. Initial proposed pair withdrawn.

K3OCM: Received Application for Coordination for narrowband UHF pair in Mechanicsville, Md. Sent Notice of Proposed Coordination to neighboring coordination groups. Sent Construction Coordination for 443.1875+ at Mechanicsville, Md.

DCMARC: Sent Final Coordination for 145.4300- at Laurel, Md.

Christiana Hospital CARES: Received on the air notification of 442.5000+ at Middletown, Del. Sent Final Coordination.

Univ. of Pa ARC: Received on air notification of 442.0000+ at Wilmington, Del. Sent Final Coordination.

Fauquier ARA: Sent Final Coordination for 442.2500+ at Warrenton, Va.

W4GSB: Received request to transfer coordination of 146.6700- in Page County, Va. Received approval from N4PJI and KE4ZLH.

K3WS: Received application for UHF pair in Washington, D.C. Sent Notice of Proposed Coordination to neighboring coordination groups.

Anne Arundel Radio Club: Received notice of CTCSS change on 444.4000+ at Davidsonville, Md. Sent notice to neighboring coordination groups.

Antietam Radio Assoc. -- Received notice of CTCSS add 147.0900+ at Hagerstown, Md. Sent notice to neighboring coordination groups.

Mid-Atlantic DX & Repeater Assoc. -- Received notice of CTCSS change on 147.0600+ at Frederick, Md. Sent notice to neighboring coordination groups.

On Air Status Requests sent to:

53.1300-	Alex RC	Alexandria, Va.
442.0000+	N2LEE	Herndon, Va.
443.8500+	K3OCM	Towson, Md.
442.2500+	Fauquier ARA	Warrenton, Va.

Other:

Received 1 Notice of Proposed Coordination for a 440 pair from South East Repeater Association.



VE CORNER by Pat Stone AC3F

The final test session for 2013 was held at White Marsh on November 23rd. We had six applicants to test. Everyone was successful.

Congratulations to new Techs: Thomas Johnson **KC3BRT**, Charles Maul **KC3BRU**, Michael Kelley **KC3BRV**, and Jason Johnston **KC3BRW**. Also deserving congratulations are upgrades: General James Ringsaker **K3ZMB** and Extra Curtis Sanders **K3URT**.

Thanks to our VE's; KC3EK, AB3QK, WB3FMT and AC3P.

The next Exam Session at White Marsh will be on January 23rd.

2014 Exam Schedule

Where: Baltimore County Public Library

**8133 Sandpiper Circle
White Marsh, Md. 21236**

Time: 1 p.m. Saturday

Dates: January 25

March 22

May 31

September 20

November 22

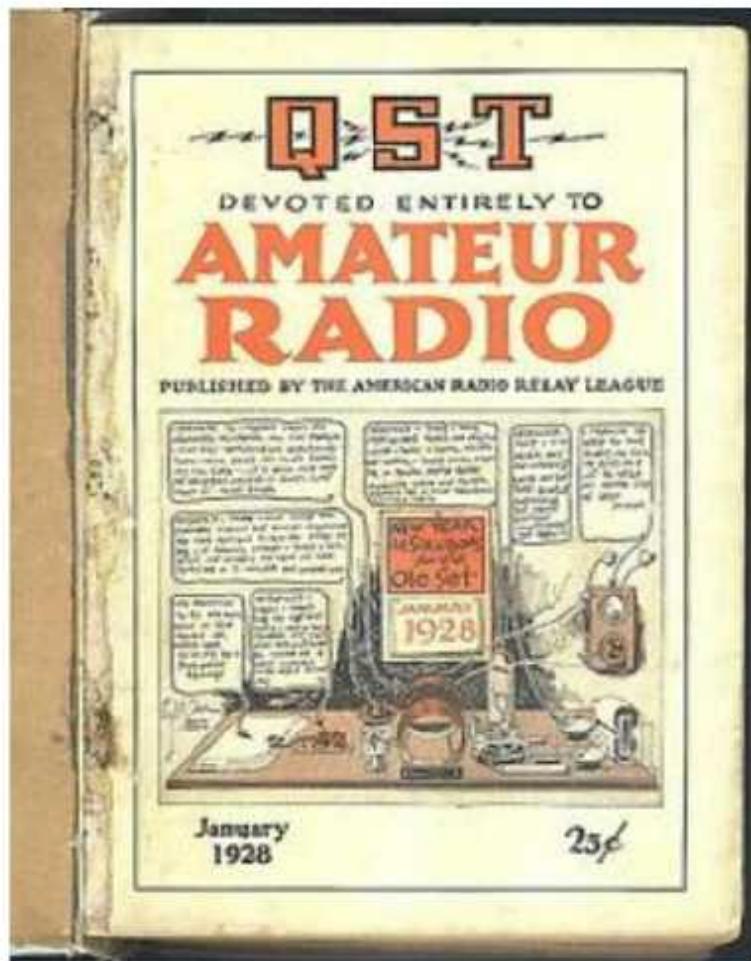
Fee: \$15

Contact: Patricia Stone AC3F

Phone: 410-687-7209

Email: ac3f@juno.com

Webpage: www.aeroarc.us/vetesting.html



January 2014

			Happy New Year No Meeting Straight Key Night 33 Days Contest	33 Days Contest	33 Days Contest	33 Days Contest
33 Days Contest	33 Days Contest	33 Days Contest	1	2	3	4
5	6	7	Meeting Coffman's 7:30 PM 33 Days Contest	8	9	10
33 Days Contest ARRL VHF Contest North American QSO Party CW	33 Days Contest	33 Days Contest	12	13	14	15
19	20	21	33 Days Contest 28,445 Megacycle Net 8 p.m.	22	23	24
33 Days Contest Maryland Mobileers Hamfest Odenton Md	33 Days Contest	33 Days Contest	26	27	28	29

From the Skies over Mt. Essex

SKY Events for January 2014

January 1st HAPPY NEW YEAR MMXIV, New Moon

Jan 4th- Earth at Perihelion (closest to the Sun)
91,406,230 miles at 00:59 EST.

Jan 3-4th – Quadrantids Meteor shower approx 60 -120 meteors per hour, look NE toward Bootes after midnight.

Jan 5th – Jupiter at opposition.

Jan 7th – First Quarter Moon

Jan 8th - Latest onset of morning twilight.

Jan 15th – Jupiter is 5° North of the Moon.

Jan 15th - *Full Moon* Moon “**Quite Moon**” for the Celtic and the “**Full Wolf Moon**” Traditional Full Moon Names.

Jan 24th- Last Quarter Moon

Jan 25th - The Moon passes 0.6° South of Saturn..

Jan 30th- *Second New Moon of January*. The second New Moon in a month is called the *Black Moon*.

Planet Lookout at mid-Month

Sunrise 07:24 EST and Sunset 17:08 EST

Mercury in the West at sunset, magnitude-1.0; 5.1 arc seconds

Venus in the East at sunrise magnitude -4.2 and 62.2arc seconds.

Mars Morning sky SE, magnitude +0.6 and 7.7 arc seconds wide.

Jupiter Visible all night, magnitude -2.7 size 46.5 arc seconds.

Saturn Morning sky. Magnitude +0.6 size 16.2 arc seconds.

Uranus In the West sets by 23:00 EST. Magnitude +5.9 size 3.4 arc seconds.

Neptune Also in the West sets by 20:00EST. Magnitude +8.0 size 2.4 arc seconds.

Upcoming Events for 2014

Planets – Mars returns to the evening sky in spring, Mars reaches opposition April 8 and will be 15" the largest and brightest since 2007. Saturn reaches opposition on May 10th. Jupiter reaches opposition on January 5th. Venus returns to prominence in the last half of 2014 visible in the Western sky after sunset.

Planetary Conjunctions in 2014 © Star Watch

Planets	Date	Separation°
Moon / Saturn	April 28	0.9
Venus / Jupiter	August 18	0.2

Moon – No Blue Moons in 2014 using Farmer Almanac rules or Sky and Telescope's two moons in a calendar month. The next Blue Moon (2 in one month) occurs on July 31, 2015. The next Farmers' Almanac Blue Moon (4 in a season) occurs May 21, 2016

Eclipses - Moon 2- Total Lunar Eclipses - 4/15/14 and 10/8/14, both visible up through Moon set from the Eastern U.S.

Solar Eclipses 1- Annular 4/29/14, not visible in the U.S. but seen in Antarctica and Australia. and 1- Partial Solar Eclipse on 10/23/14, visible in Central and Western U.S. (West of Georgia and Ohio).

Meteor Showers for 2014 - 3 Fair, 4 Good, 2 Very Good

Quadrantids 1/3/14	New Moon	Very Good	60-120 per hr
Lyrids 4/22/14	Last Quarter	Fair	10 per hr
Eta Aquarids 5/5/14	Waxing Crescent	Good	45 per hr
Bootes 6/27/14	New Moon	Good	0-100 per hr
Delta Aquarids	Last Quarter	Fair	16 per hr
Perseids 8/12/14	Full	Fair	60-80 per hr
Orionids 10/21/14	New Moon	Good	18 per hr
Leonids 11/17/14	New Moon	Good	15 per hr
Geminids 12/14/14	Last Quarter	Very Good	120 per hr

Seasons in 2014

Earth Perihelion	01/04/2014	07:00 EST	12:00 UT
Earth Aphelion	07/04/2014	20:00 EDT	00:00 UT
Vernal Equinox	3/20/2014	12:57 EDT	(16:57 UT)
Summer Solstice	6/21/2014	06:51 EDT	(10:51 UT)
Autumnal Equinox	9/22/2014	22:29 EDT	9/23/14 (02:29 UT)
Winter Solstice	12/21/2014	18:03 EST	(23:03 UT)

Daylight Saving Time

Begins 3/09/2014 - End 11/2/2014

Easter Dates 2014

Easter Christian (Western) and Eastern Greek (Orthodox)
4/20/2014