



Marine Corps Marathon Course

The Aero Aerial

The Newsletter of the Aero Amateur Radio Club
Middle River, MD
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October 2016

Editor Georgeann Vleck KB3PGN

Officers

President	Joe Miko WB3FMT	Repeater	Phil Hock W3VRD Jerry Cimildora N3VBJ
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		Contests	Bob Venanzi ND3D Charles Whittaker KB3EK

Committees

Website: <http://w3pga.org>

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 Essex SkyPark, 1401 Diffendall Road, Essex. Meetings begin at 7:30 p.m. local time. Meetings are canceled if Baltimore County Public Schools are closed or dismiss early.

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.

2016 Examination Schedule

Where: White Marsh Library, 8133 Sandpiper Circle

Time:	1 – 4 pm	1 – 4 pm
Dates:	Sun., Sept. 25	Sun., Nov. 13

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	145.330	Oriole Net
Daily	6 pm	3.820	Maryland Emergency Phone Net
Daily	6:30 – 7 pm	145.330 no PL	Baltimore Traffic Net (b/u 146.670 PL 107.2)
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
Fridays	7:30 pm	145.330	Back in the Day Net
When activated by NOAA		147.030	SkyWarn (primary)

FROM THE PRESIDENT'S DESK



Aero ARC at Essex Skypark's Wings and Wheels

by Joe Miko, WB3FMT

The Aero Amateur Radio Club made a fine showing at the Essex Skypark annual Wings and Wheels event, held this year on Saturday, September 17. The event was open to the public from 9 am to 4 pm. Aero members arrived about 7:30am for setup. We had an information booth with information on Ham Radio and SKYWARN, and answered any questions the visitors had. In addition to information, actual weather instruments were displayed and a digital radio and HF radio were also setup and in operation.

Kelly KC3APF and Charles KC3ANJ modified our Field Day club info board with 5 video display picture frames, showing various club activities and members. Jerry N3VBJ wore two hats, one for SKYWARN and one as a digital radio operator using HT's on DStar and DMR . Charles KC3ANJ and Larry KB3QWC made the bulk of HF contacts.



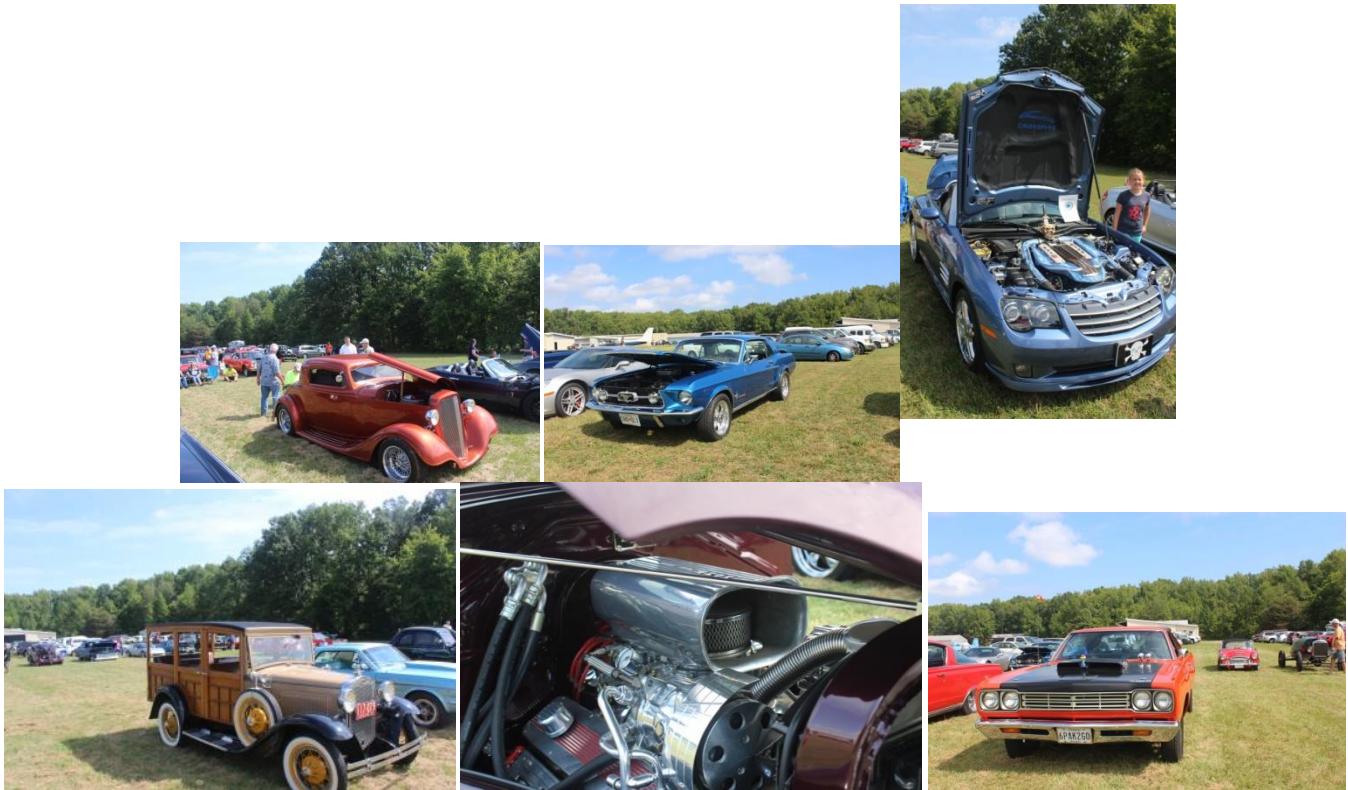
The digital station was the first on the air at 9:25 am using a 2 meter/70 cm beam on a 20 foot mast pointed towards Towson. Jerry made 11 contacts consisting in states (MD, PA, VA, MA and TN) as well as 1 in Quebec, Canada.

The HF station was able to make its first contact at 10:55 am on 20 meters, using an ICOM 7000 running 100 watts into a G5RV Jr in an inverted V configuration. The HF operators were able to make 11 contacts on 20 meters, and 32 on 40 meters. The contacts were in 16 states (WA, AZ, LA, WI, MI, IN, OH, SC, VA, MD, PA, NY, NJ, CT, MA, NH and NE), and 1 in Ontario, Canada.





As for the Airpark, I counted at least 30 aircraft, 4 helicopters and about 30 antique or vintage cars and trucks. The airport had an estimated 200 to 500 pilots and visitors the day's event. Great weathers was ordered by the airport heads and was delivered, with temps in the upper 70's to low 80's, broken clouds, and 13 mph winds out of the South. Along with the full size aircraft, the RC flying club that flies at the Skypark was also present.



The Aero ARC as always put on a good showing, we had 11 members participate, along with one XYL (Ron's wife Julie), Kelly is also an XYL and a member. My 3 grandkids had a great time and look forward to next year's event -- and maybe an aircraft ride?



Grandkids Colin (green shirt), Joey and Monica

Again thanks to all who supported the event from the Aero ARC, for set-up, operations, support and breakdown, a job well done and very well appreciated! And also to the DMR and DStar folks that let us use their gateways.

NET REPORTS

09-14-16: 28.445 MHz, 20:00 to 20:55 local.

W3PGA Joe (NCS) Essex, W3JEH Ron Perry Hall, W3VRD Phil Essex, KC3AID Marty Rosedale, KB3JVP Ken Middle River, KC3FBL Jim Parkville, KC3FRH Charles Parkville

Op Note: We will be operating from the FBO at the Essex Skypark, using at least 2 radios and two antennas

9-28-16: 147.240 MHz, 20:00 to 20:38local.

W3PGA Joe (NCS) Essex, KB3JVP Ken Middle River, KB3VAE Rich Middle River, KC3FBM Franklin Parkville, KC3FRH Charles Parkville, N3EKO Ron Parkville, KC3ANJ Charles Dundalk, KC3FBL Jim Parkville, KC3FNN Rob Middle River, KC3APF Kelly Dundalk, KC3FRJ/AG Steve Parkville

Op Note: Charles and Kelly now have their repeater running a full power >40 watts. It is in auto mode running either C4FM or analog FM. Their repeater is on 448.675 – offset with a PL tone of 91.5. It is also one of the first Fusion repeaters in the area to be connected with Wires X and if works.

Upcoming Second Meeting Presentations

These presentations will be given at the Essex SkyPark FBO building after the business meeting.

<i>Date</i>	<i>Topic</i>	<i>Presenter</i>
TBA	VE Testing & Morse Code	Patricia Stone
TBA	Contest Logging with N1MM	Bob ND3D
TBA	The Acu-rite Weather Station	Charles KC3ANJ, Kelly KC3APF
TBA	His 220 Repeater	Ron W3JEH
TBA	His Linear Amplifier	Phil W3VRD
TBA	Ham Radio in the Modern Age	Keon KE3HAY

Any questions call Joe Miko at 443-956-0197.

Presenters who wish to submit a description of their talk may email it to Georgeann at
KB3PGN@reagan.com for inclusion in the Aerial.

PUBLIC SERVICE OPPORTUNITIES

Saturday, October 15 & Sunday, October 16: 2016 Boy Scout Jamboree-On-The-Air

Message from Herman Niedzielski, K2AVA, ARRL MDC ASM for Scouting, Phone: 301-791-5841, k2ava@arrl.org, k2ava@myactv.net, who is looking for ham volunteers.

More than 1 million Scouts in 150+ countries — at nearly 18,000 stations — are expected to take part in JOTA 2016, engaging with other Scouts to talk about Amateur Radio and their Scouting experiences. Contact your local Cub or Webelo Pack, Boy Scouts Troop or BSA Venturers Unit and invite them to your shack and treat them to a trip around the country to visit other Scouting units via RF.

If you don't have a local unit, contact the nearest Scout office and they may be able to connect you with a unit. You may also find the Scout office may have a contact person for a "Fall Camporee" that usually occurs with most Councils around this time and it may be in your area. I have always found them happy to have us setup a demonstration station at a Camporee and the boys all seem to enjoy it.

If you have a CW keyer/reader bring it along - they really get a kick out of sending or listening to their name in CW. It would be great to have more clubs participate, team up with your club or just a couple of buddies to help - it is always more fun with a group.

For more information, click on:

- <http://www.scouting.org/jota.aspx>
- <http://www.scouting.org/LocalCouncilLocator.aspx>
- <http://www.arrl.org/jamboree-on-the-air-jota>
- http://www.scouting.org/jota/patch_order.aspx

To contact your area Scout offices:

Baltimore Area Council, 701 Wyman Park Dr., Baltimore, Phone 442[sic]-573-2500
National Capital Area Council, 9190 Rockville Pike, Bethesda, Phone 301-530-9360
Mason Dixon Council, 18600 Crestwood Dr., Hagerstown, Phone 301-739-1211
Laurel Highlands Council, 1275 Bedford Ave., Pittsburgh, PA Phone 412-471-2927
Del Mar VA Council, 100 W 10th St. Ste. 915, Wilmington, DE Phone 302-622-3300

If you wish to participate or need more information contact Herman Niedzielski, K2AVA, Phone: 301-791-5841, k2ava@arrl.org, k2ava@myactv.net

Sunday, October 30, 2016: 41st Marine Corps Marathon, Washington, DC

The Virginia Section District 2 EC, Howard Cunningham, WD5DBC, is asking for amateur radio volunteers to provide emergency medical and logistics communication support throughout the course, working in concert with the various law enforcement agencies as well as the Arlington, VA and Washington, DC Fire Department Emergency Medical Services (EMS) to aid the more than 25,000 athletes that are expected to take part this year. Points still needing to be manned include mile markers, water points, food stops, aid stations, and some post-finish locations.

There are two signup pages: <http://www.mcmham.org> and <https://mcmregistration.com/Register/?event=36405>.

If you have any questions or problems, please email Howard Cunningham at howardc@macrolle.com.

Also: ARES/RACES Prince George's County, Maryland is LOOKING FOR A FEW GOOD MARINE CORPS MARATHON VOLUNTEERS."

Look on the PGC website at <http://pgares.org/>.



VE CORNER

by Pat Stone, AC3F

Our November VE test date is Sunday, Nov. 13th at 1 pm in the White Marsh Library. Hope to see you then.

UPCOMING HAMFESTS and EVENTS

Glenn L. Martin Aviation Museum Speaker Series, 7 pm, Lockheed Martin Administration Building, 2323 Eastern Blvd, Middle River, MD.

Although admission to the Aviation Speaker Series program is free, a photo ID is required for entry into the facility.

October 3: The latest on the James Webb telescope from the director, Massimo Stiavelli

November 7: Retired USAF pilot Buz Carpenter talks about flying the Lockheed SR-71 "Blackbird"

Saturday October 8th & Sunday 9th, 2016, 9 am to 4 pm both days: Amateur Radio Technician Level License Class

Cranford-Graves Fire Services Building, 6820 Webster Street, Hyattsville, MD 20784.

This is an intense two day course that covers all of the material necessary to pass the examination. Registration is required through EventBrite.com. Click on:

[<https://www.eventbrite.com/e/a-free-ham-radio-technician-classhamcram-hyattsville-maryland-tickets-26833232922>](https://www.eventbrite.com/e/a-free-ham-radio-technician-classhamcram-hyattsville-maryland-tickets-26833232922).

Saturday, October 9, 2016: CARAFest 2016

Howard County Fairgrounds, 2210 Fairgrounds Rd., West Friendship, MD 21794

Sponsor: Columbia Amateur Radio Association

Website: <http://www.carafest.org>

Contact: David Parkison, KB3VDY, PO Box 911, Columbia, MD 21044

Phone: 443-492-9501, Email: info@carafest.org

Talk-In: 147.39+ (PL 156.7)

Follow I-70 to Rt-32 and follow signs

DX Card Checking and Free License Exam

Tailgater @ 6AM, Public @ 8AM, see website

Saturday, October 22, 2016: St. Mary's ARA 4th Annual TailgateFest, 8 am - 12 pm

Hollywood VFD Bingo Hall, 24801 Three Notch Rd., Hollywood, MD 20636

Website: <http://www.k3hki.org>

Sponsor: St. Mary's County ARA

Talk-In: 146.640 (PL 146.2)

Table fee: Indoor Reserved: \$10, Outdoor spot: \$5

Contact: Chuck Gantz, K3WJX, 45200 Christman Rd., Hollywood, MD 20636

Phone: 240-925-1105, Email: k3wjx@yahoo.com

Sunday, October 23, 2016: THE MASON-DIXON HAMFEST

Sportmans Hall Skating Rink, 15500 Hanover Pike, Upperco, MD 21155

Website: <http://www.qis.net/~k3pzn/hamfest.html>

Sponsor: Carroll County Amateur Radio Club

Contact: Steve Beckman, N3SB, 2145 Bethel Rd, Finksburg, MD 21048, Phone: 410-876-1482, E-mail: n3sb@qis.net

Indoor space possibly available by the Oct. 23 date. Check with the contact for information.

Saturday, December 10, 2016: SANTA FEST

American Legion Youth Camp, 9201 Surratts Road, Cheltenham, MD 20623

Sponsor: American Legion & Prince George's County Emergency Repeater Assn.

Talk-In: 145.230 (PL 110.9)

Contact: Charles Hallock, AA3WS, 16203 Manning Road, West Accokeek, MD 20607,

Phone: 301-535-1666, E-mail: selbynet@hotmail.com

Visit www.arrl.org/hamfests-and-conventions-calendar for complete listings.

DID YOU KNOW . . . ??

August 11, 1909: The steamship SS Arapahoe, off North Carolina's Cape Hatteras, became the first ship in North America to issue an SOS distress signal.

FEATURE ARTICLE

North American QSO Party 2016: AERO Amateur Radio Club

By Jerry N3VBJ

At 10 am on Saturday, August 20, Joe WB3FMT, Jerry N3VBJ, Keon KE3HAY, Marty KC3AID, Charles KC3ANJ, Kelly KC3APF, and Bob WA3SWA arrived at the Essex Sky Park, and, after some breakfast and discussion around the picnic table, we started to assemble masts and put up the dipoles. By noon we had the Windom dipole and the G5-RV dipole in the air and coax attached.



Jerry, Keon, and Joe then moved inside to set up the stations for the contest. Keon's Icom 756 Pro for 40 meters and 80 meters were connected to the Windom. Joe's Yaesu FT-991 Rig (with touch screen) and tuner were connected to the G5-RV dipole for 20 meters. We had a laptop for logging at each station and a central laptop to keep the main log using N3FJP's NAQP software. Bob brought his wireless hub for the network and his Windom. We had filters for each band to prevent interference.

We were completely set up and operating by 1:30 pm. Club members, guests, and visitors began to arrive. We made a couple of contacts to check the antennas and equipment and software.

Keon	KE3HAY	Aero	Setup and Operator
Stephan	KB3WCH	Mt. Airy	Guest
Marty	KC3AID	Aero	Setup and Break Down
Joe	WB3FMT	Aero	Setup, Operator, Breakdown
Mark	W2PAW	Lanham	AARC Guest

Charles	KC3ANJ	Aero	Setup and Break down
Kelly	KC3APF	Aero	Setup and Breakdown
Jerry	N3VBJ	Aero	Setup, Breakdown and Operator
Bob	WA3SWA	Aero	Setup, Breakdown and Operator
Sue Landis	Bob's XYL		Peanut Butter Cookies and Dinner for 20 at no charge
Richard	KB3VAE	Aero	
Don	KC3GKE	Aero	
Walt	KC3DPQ	Pasadena	Guest
Steve	KD3TP	Aero	
Jim	K3YMI	Columbia	Guest
Jim	KC3FBL	Aero	
Chuck	KC3FRH	Aero	
Larry	KB3QWC	Aero	Operator
Ron	W3JEH	Aero	Operator
Julie	Ron's XYL		
Jay	W3CPO	Glen Burnie	Guest

The contest started promptly at 2:00 pm. Jerry and Keon manned the rigs and started making contacts on 40meters and 20 meters. We had visitors listening on head phones along with the operators. The setup crew sat by the fans and had a cold drink. We had guests operate under the seasoned amateurs and show them how the contesting works and how to operate the rigs. Both stations were under pre-recorded voice prompts. The report given was *Joe Maryland* which made it easy for the operators and the newbie's. Everyone was known as "Joe" for the contest.

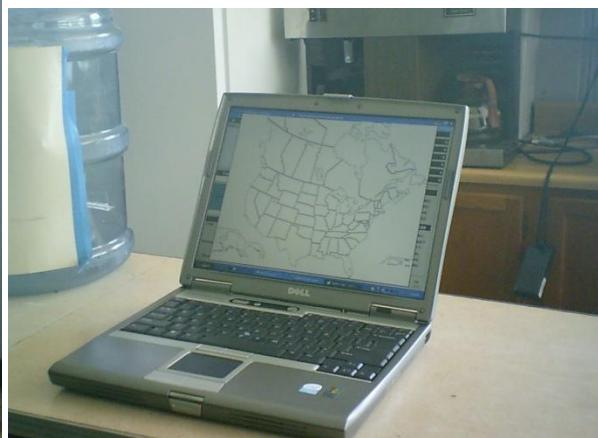
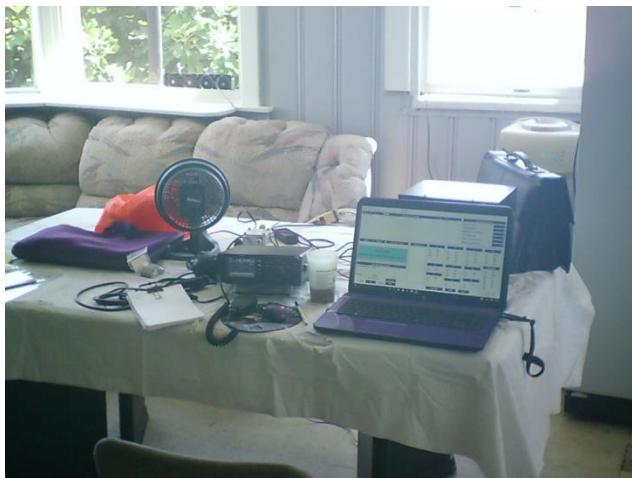
We had plenty of fans running and the widows open. Joe provided sodas, water, and ice.

We shut down at 5:00 pm when Bob's wife Sue arrived with dinner!!! She had a big tray of baked ziti & cheese with marinated mushrooms, a salad with vinaigrette dressing, Italian bread, and peanut butter cookies!

We were back on the air by 6:00 pm, still making contacts. At 8:00 pm we switched Keon to 80 meters and Jerry went up on 40 meters. We operated till 11:30 pm; we were getting a lot of dups, so we decided to shut down early and call it a night! All the rigs were torn down and we secured the FBO just after midnight.

Sunday morning Bob, Joe, Charles, Kelly, and Marty returned and took down the antennas and the masts and wound up the coax. They were done by 11:00 am just as it began to rain.

The final tally was 282 contacts, 20,586 points in 10 hours. Everyone got plenty to eat and we as a club had FUN! Visitors got to see our setup and see the club in action on the air!



We had a total of 21 people, 14 from the Aero Club, 2 XYL's and 5 Guest Hams. For Set up we had 7 members and breakdown we had 6 members. Equipment borrowed from Warren was returned to his trailer on Wednesday.

We will see how the Club fared when the results are published in QST magazine.

From the Skies over Mt. Essex

SKY Events for October 2016

Oct 4th – USSR launches Sputnik 1 in 1957.

Oct 9th - First Quarter Moon

Oct 11th – Morning dawn Jupiter and Mercury <1° apart.

Oct 13th – Neptune is 1.2° S of the Moon

Oct 14th – Uranus is at opposition

Oct 16th - Full Moon “Hunter’s” for the Traditional American and the “Kindly Moon” for the Chinese Full Moons. Penumbral eclipse 05:00 EDT.

Oct 19th – Aldebaran 0.3°S of the Moon

Oct 20 – 21 Orionids meteor shower, Moon is LQ, fair viewing ≈ 18 per hr.

Oct 22nd – Last Quarter Moon, First recorded solar eclipse seen in China in 2136 BC.

Oct 27th Saturn, Venus and Antares will be in a vertical alignment with Saturn on top look SW 30mins after sunset/.

Oct 28th – Jupiter is 1.4° S of the Moon

Oct 30th – New Moon

Sunrise 07:14 EDT and Sunset 18:30 EDT

Planet Lookout at mid-Month

Mercury Dawn rises 05:30, mag -1.1, size 5.4 arc sec.

Venus Dusk sets 19:57, mag -3.9, size 12.6 arc sec.

Mars Evening, sets 22:55, mag 0.2 and 8.3 arc sec.

Jupiter Dawn rises 06:02, mag -1.7 size 30.7 arc sec.

Saturn Evening sets 21:02, mag 0.6 size 15.7 arc sec.

Uranus Evening rises 18:20, mag 5.7, size 3.6 arc sec.

Neptune Evening 16:38, magnitude +7.8 size 2.3 arc sec.

It's raining meteorites?

Looking for a meteorite? Check your roof and rain gutters

March 02, 2013 | By Scott Feldman, sfeldman@aberdeennews.com

American News Photo by John Davis (Feb. 28, 2013)



If you want to find a meteorite in northeastern South Dakota, it's actually pretty easy: Just check your rain gutters or climb onto your roof. Unless you want a meteorite that isn't microscopic? If that's the case, you'll need some time, luck or money.

Meteorites are technically just about everywhere because microscopic meteorite particles can be found atop most roofs and in rain gutters, said Thomas Durkin, deputy director of the South Dakota Space Grant Consortium at the South Dakota School of Mines and Technology in Rapid City.

And they aren't as big as the one over Chelyabinsk, Russia, on Feb. 15 that injured thousands. The vast majority of meteoroids burn up in the earth's atmosphere, but many particles still descend to the Earth's surface, Durkin said. How much space dust falls to Earth each year?

Estimates vary, but the USGS says at least 1,000 tons of material enters the atmosphere every year and makes its way to Earth's surface.

Thousands "of tons of micro meteorites accumulate on the earth's surface every day," he said.

However, larger meteorites are much rarer and more difficult to find, he said. Micro meteorites are everywhere, but they must be separated from the dirt and debris that also collects there, Vondruska said.

Collections of micro meteorites appear similar to the larger-sized meteorites when viewed through a microscope, she said.

What is it?

- Meteoroid: An object, often a particle of an asteroid or comet, that travels through space.
- Meteor: A meteoroid that has entered Earth's atmosphere and becomes visible when it burns up.
- Meteorite: Term for a piece of a meteoroid that reaches Earth's surface.

Source: Judy Vondruska, professor and astronomy/physics lecturer at South Dakota State University

Ed. Note: I did it in my back yard!

All that is needed is a rain spout, bucket, small size diameter screen and a magnet. The easiest way to capture a meteorite is letting the rain do it for you. Place a bucket or pan under your rain gutter and wait a few weeks.

Then drain the water keeping all of the sediments, cheese cloth or a fine mesh will work as a filter. Let the sediment dry and then go over the sediments with a magnet.

The small flecks you pick up will be micro-meteorites.

