



*Marine Corps Marathon Course*

## ***The Aero Aerial***

The Newsletter of the Aero Amateur Radio Club  
Middle River, MD  
Volume 13, Issue 10  
October 2016

Editor Georgeann Vleck KB3PGN

### ***Officers***

|                         |                       |
|-------------------------|-----------------------|
| President               | Joe Miko WB3FMT       |
| Vice-President          | Jerry Cimildora N3VBJ |
| Recording Secretary     | Lou Kordek AB3QK      |
| Corresponding Secretary | Pat Stone AC3F        |
| Treasurer               | Warren Hartman W3JDF  |
| Resource Coordinator    | Ron Distler W3JEH     |

### ***Committees***

|                     |   |
|---------------------|---|
| Repeater            | Phil Hock W3VRD<br>Jerry Cimildora N3VBJ    |
| VE Testing          | Pat Stone AC3F                              |
| Public Service      | Bob Landis WA3SWA                           |
| Webmaster, Facebook | Jerry Cimildora N3VBJ                       |
| Trustee             | Dave Fredrick KB3KRV                        |
| Club Nets           | Joe Miko WB3FMT                             |
| Contests            | Bob Venanzi ND3D<br>Charles Whittaker KB3EK |

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](mailto: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 <sup>nd</sup> Tue    | 7:30 pm      | 146.670       | Baltimore County RACES Net                   |
| 2 <sup>nd</sup> Wed    | 8 pm         | 28.445        | Aero ARC Net                                 |
| 4 <sup>th</sup> Wed    | 8 pm         | 147.240       | Aero ARC Net                                 |
| 5 <sup>th</sup> 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 weather 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](mailto: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](mailto:k2ava@arrl.org), [k2ava@myactv.net](mailto: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 Webelos 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](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](mailto:k2ava@arrl.org), [k2ava@myactv.net](mailto: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@macrollc.com](mailto:howardc@macrollc.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>>.

**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](mailto: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](mailto:k3wjx@yahoo.com)

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

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

Website: [www.qis.net/~k3pzn/hamfest.html](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](mailto: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](mailto:selbynet@hotmail.com)

Visit [www.arrl.org/hamfests-and-conventions-calendar](http://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 keeping 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.

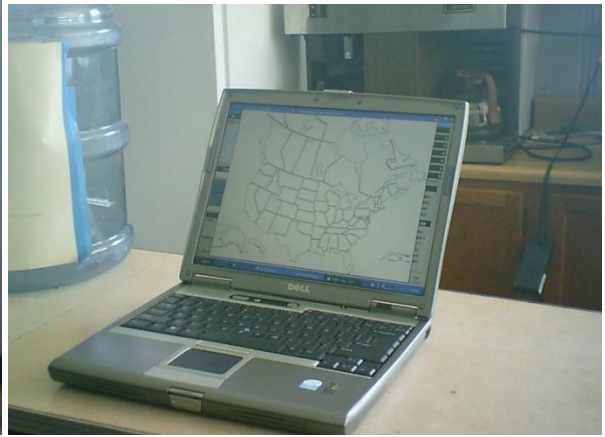
We had plenty of fans running and the widows open. Joe provided sodas, water, and ice.

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 dupes, 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 4<sup>th</sup> – USSR launches Sputnik 1 in 1957.

Oct 9<sup>th</sup> - First Quarter Moon

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

Oct 13<sup>th</sup> – Neptune is 1.2° S of the Moon

Oct 14<sup>th</sup> – Uranus is at opposition

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

Oct 19<sup>th</sup> – Aldebaran 0.3° S of the Moon

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

Oct 22<sup>rd</sup> – Last Quarter Moon, First recorded solar eclipse seen in China in 2136 BC.

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

Oct 28<sup>th</sup> – Jupiter is 1.4° S of the Moon

Oct 30<sup>th</sup> – 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](mailto: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.

