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Raven Hill Discovery Center, incorporated in 1991,
is a 501(c)(3) tax-exempt corporation.

Open 10am-4pm weekdays, 12-4pm Saturdays and 2-4pm Sundays.
Open holidays and other times by appointment.

MISSION: to provide a place that enhances hands-on and lifelong learning for all ages by connecting science, history and the arts.

WHERE SCIENCE HISTORY AND ART CONNECT

To: Raven Hill friends
From: Cheri
Date: September 30, 2023
Re: *Sharing the sky!*

Whether she meant to or not, author Kelsey Leigh Reber describes an eclipse perfectly, when she writes, "in that moment, the moon and the sun shared the sky." It's not often that we can see the sun and moon in proximity. Less than five solar eclipses occur per year, including partial, annular, or total eclipses. Saturday, October 14, 2023, is one of those times. In two weeks, there will be an annular solar eclipse and while it will not pass directly by us here in Michigan, we will have a partial eclipse with between 30 and 40 percent coverage. An annular solar eclipse occurs when the moon comes between the Earth and the sun, but doesn't cover the sun entirely, forming a "ring of fire". Since the path of the eclipse is west of Michigan, we will not see that "ring of fire".

Raven Hill will open early at 11am on Saturday, October 14, so that visitors can get their eclipse glasses before the solar event begins at 11:43am. See the chart above for more details. Looking directly at the sun during an eclipse can cause permanent eye damage. The sun's rays are very strong and can cause burns on the retina of the eye. Eclipse glasses will be available for purchase for \$2 each. Everyone should plan to bring their own or buy them at the Center. Of course, all bets are off if the skies are cloudy! Still, it is the last FREE Second Saturday for 2023, so whether it is cloudy or clear, we invite you to come enjoy Raven Hill!

With the sun and moon superimposed on each other on the 14th, it is a great time to share some favorite thoughts, quotes, songs and art about the sun and moon! In many cultures, the sun and moon represent different things, but one commonality is the sun and moon's opposite positions to each other. In Mexican folk art, "the sun symbolizes firmness, strength and power, while the moon represents calmness, beauty and nurturing." One of my favorite writers is Hermann Karl Hesse, German-Swiss poet, novelist and painter. Hesse once said this, "we are sun and moon, dear friend; we are sea and land. It is not our purpose to become each other; it is to recognize each other, to learn to see each other and honor him for what he is: each the other's opposite and complement." It is certainly a wonderful way to think about friends.

Oct 14, 2023 at 12:59 pm



Max View in City of East Jordan, Michigan

Global Event: [Annular Solar Eclipse](#)

Local Type: [Partial Solar Eclipse](#) at Raven Hill Discovery Center

Begins: [Sat, Oct 14, 2023 at 11:43 am](#)

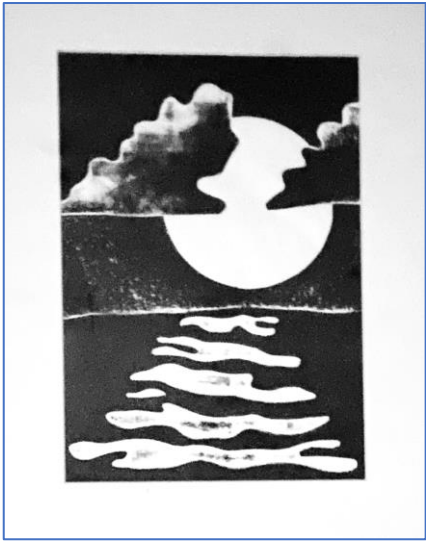
Maximum: Sat, Oct 14, 2023 at 12:59 pm [0.451 Magnitude](#)

Ends: Sat, Oct 14, 2023 at 2:17 pm

Duration: 2 hours, 34 minutes

All times shown on this page are local time.

For more information about the coming eclipse, check out these websites: [GreatAmericanEclipse.com/Michael Zeiler](#) or go to <https://www.space.com/annular-solar-eclipse-2023-guide-ring-of-fire>



***Moonscape:** a paper moon hangs over a cardboard sea. Collagraph by Raven Hill's co-founder Tim Leach.*

In 1932, Harold Arlen, Yip Harburg and Billy Rose collaborated on a song called "It's Only a Paper Moon". The lyrics begin like this: "Say it's only a paper moon, Sailing over a cardboard sea, But it wouldn't be make-believe, if you believed in me." Maybe I like the song, because it reminds me of a print created by co-founder Tim Leach. "Moonscape" was one of Tim's collagraphs. Collagraphs are a relief print made without using a printing press. Instead of cutting away from a surface like a wood or linoleum print, a collagraph involves adding to the surface of a printing plate. Tim used layers of cardboard to create his moonscape. After inking the surface, he transferred the image from the textured cardboard surface to paper for his "Moonscape."

Watercolor artist Bonnie Olendorf used artistic license in her rice paper batik. Whether her painting depicts sunrise or sunset, sun or moon, east or west, does not really matter. Bonnie created real summer magic in her rendering of the sky above Raven Hill Discovery Center. We invite you to join us at the Center on

Saturday, October 14 to do some of your own sky watching, enjoy the annular solar eclipse and spend time exploring the exhibits at the Center—both indoors and outside.

Remember, the Smithsonian Museum on Main Street exhibit will be on display at Raven Hill for just one more week. **Spark! Places of Innovation in Rural America** closes Saturday, October 7, 2023, so be sure to visit **Spark!** soon. Thanks to the Charlevoix County and Petoskey-Harbor Springs Area Community Foundations, Charlevoix and Emmet County students will continue taking advantage of the opportunity to explore innovations in towns across America through the **Spark!** exhibition, as well as individual innovations and inventions featured throughout Raven Hill's facilities and exhibits.

Starting Monday, October 9th, Raven Hill will begin fall/winter hours. The Center will be open from noon to 4pm on Saturdays, 2pm to 4pm on Sundays and other times, including holidays, by appointment. To make reservations, call 231.536.3369 or email cheri@miravenhill.org.

Consider bringing your friends and relatives out this week to see the Smithsonian exhibition or join us on Saturday, October 14, for the annular solar eclipse. After that, you can visit on a weekend or call for an appointment to enjoy a fun afternoon of discovery and exploration!

We look forward to seeing you at Raven Hill soon,

Cheri



There is an inherent softness about rice paper batiks, both in the look of the artwork and the actual feel of the rice paper.