

Upcoming Speakers

7/26 - **Bill Cunningham**, Supreme Court Justice, 1st District of Kentucky

8/2 - **Dr. Patrick Withrow**, Director of Outreach - Baptist Health, Topic: Addiction

8/9 - **Dr. Ed O'Neill**, Neonatologist - Director of Baptist Health NICU, Topic: Neonatal Exposure to Opiates & Its Impact

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GearTeeth

The Rotary Club of Paducah



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The Day the Stars Come Out: Solar Eclipse 2017

July 19, 2017

Speaker: WPSD Meteorologist Trent Okerson. Okerson was introduced by Rotarian Don Barger.

Topic: An overview of how to prepare for, and what to expect from the August 21st Total Solar Eclipse.

Top Ten Takeaways for Rotarians:

-Okerson explained that a total solar eclipse is when the moon aligns exactly between the sun and the Earth. Although the sun is approximately 400 times wider than the moon, it is also 400 times farther away from Earth allowing the moon to appear to "block" the sun.

-This will mark the first total eclipse to cross any part of the US since 1979. Okerson said a total solar eclipse occurs approximately every 18 months somewhere on Earth. Based on the current population, fewer than 1 in 1,000 people ever see a total solar eclipse.

-The August 21 total eclipse will be seen in a slightly curved trajectory through 14 states from Oregon to South Carolina. Its path will be roughly 70 miles wide. People outside the "ribbon" of the total eclipse will only see a partial eclipse. It's predicted this will be the most viewed total solar eclipse in history because its path is primarily over land.

-Our area has been identified by NASA as the area where the eclipse may be seen the longest. The portion of the viewing ribbon near Carbondale, IL and near Hopkinsville, KY will see the eclipse for just over two minutes and 41 seconds. In Paducah, Okerson said, the partial eclipse begins (all times CDT) at 11:53am. Totality will occur from 1:22:13pm until 1:24:23pm for a duration of approximately two minutes and 16 seconds. The partial eclipse over Paducah will end at 2:49pm.

-Okerson said that during the eclipse, the speed of the moon's shadow across the US is 1,700 miles per hour. He said the partial eclipse will be followed by an effect called "Baily's Beads" where the moon's low spots will allow "beads" of light to be seen. That is followed by the "Diamond Ring" effect a few seconds before totality begins.

-Tips for safe viewing of the eclipse to avoid eye injury: Regular sunglasses are not dark enough; Eclipse viewing glasses are mandatory, and should be ISO 12312-2 certified; #14 tinted welders' glasses may be used; Cameras of any kind should be fitted with solar filters for effective photography; Only during totality should you view the eclipse without protective glasses (even a small amount of direct sunlight can cause vision damage). WPSD will be one of the many outlets providing eclipse viewing glasses.

-Okerson said with good weather, officials estimate as many as 500,000 visitors will be in the area on the day of the eclipse. The Kentucky Transportation Department is advising people to "prepare like you would for a snow or ice storm" because of the additional traffic through the area. He said traffic patterns could be particularly affected based on weather conditions if viewers begin last-minute relocating to find "clear sky".

-He said scientists will be studying several factors that occur during the eclipse. Animal behavior, solar storm effects, and atmospheric conditions will be recorded and studied.



Birthdays

Melanie W. McNeill

July 23

Susan P Baier

July 24

Daniel Key

July 25

Don Barger

July 29

Scott Powell

July 30

Lucas Bremer

July 31

Victor Sredl

July 31

Christopher Sims

August 01

Patrick Withrow

August 04

Cathy Crecelius

August 04

Brian J. Laczko

August 07

Wayne M. Shelton

August 09

Steven A. Powless

August 11

Lance Allison

August 14

Kevin Peck

August 15

Bill Glenn Holsapple

August 15

James Patrick Mobley

August 16

Terrance Adams

August 17

Frank Shelton

August 23

Lisa Long

August 24

Matthew N. Cherry

August 27

He says we can expect a five to ten-degree temperature drop during totality, depending on other weather conditions that day.

-Eclipse terms to know: Umbra-The complete shadow on Earth created by the sun being totally hidden by the moon. Shadow bands: Faint ripples of light sometimes seen on flat, light-colored surfaces just before and just after totality. Corona: The upper atmosphere of the sun which appears as a halo around the sun during a total solar eclipse.

-For more information on the total solar eclipse of 2017, visit your local media outlets or visit: <https://eclipse2017.nasa.gov>.

Announcements

July 19, 2017

-The City of Paducah announced this week that the “**Phase One Ribbon Cutting Ceremony for the Fountain Avenue Health Park**” takes place Tuesday August 1 at 10:30am. The Rotary Playground Project was the first element of the Health Park completed, and several additional projects are still to come. Let’s have a great turnout of Rotarians to celebrate the “official” opening!

-Congratulations to Rotarian **Sandra Wilson** and the **Paducah Area Chamber of Commerce** for being named the 2017 Chamber of the Year by the Association of Chamber of Commerce Executives (ACCE) for category 2. Sandra accepted the award yesterday during the ACCE National Convention awards ceremony in Nashville, TN.