

Tryon Daily Bulletin, Wed., July 15, 1981

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AARP Picnic July 21st

Polk County Chapter No. 2182, AARP, will have a picnic at Sandy Plains Lake on July 21st at 12:00 noon. Each person is asked to bring their choice of meat (grills will be provided) and a covered dish for passing, plus own table service and chairs. Dessert and beverage will be furnished. All members are urged to participate in this fun and fellowship outing. Guests will be welcome. For further information call Chester Griffin, 863-4475. — Reporter

THANK YOU

I would like to thank Dr. Woody, and Dr. Gilbert for their good medical care, also the staff and nurses of St. Luke's Hospital for their kindness and care during my illness in the hospital and my friends for their beautiful cards, flowers and donations.

Thank you,
Ella Blanton
adv. 15, pd

Save on WINDOW CLEANING, for the month of July. Take advantage of the **REDUCED** price. **Ray's Cleaning Service,** Home & Office, 859-5174, Rugs and Carpets Cleaned.

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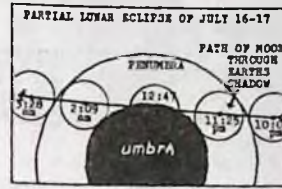
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The Cosmic Reporter



"July's Partial Lunar Eclipse"

By Tim Linder

On the night of July 16—17 (Thursday night and Friday morning) the moon will undergo a partial lunar eclipse. A lunar eclipse occurs when the moon passes through the Earth's shadow. During the July 16—17 lunar eclipse shadow (see accompanying diagram) and at mid-eclipse about 55 percent of the moon's disk will be obscured.

The Earth's shadow is composed of two parts, the UMBRA and the PENUMBRA. The umbra is the darkest part of the shadow where almost all of the sun's light is blocked out. The umbra is encircled by the penumbra, the lighter part of the shadow in which only a small part of the sun's light is blocked out. When the moon enters the Earth's penumbral shadow only a slight darkening of the moon may be noticed. The real show begins when the moon enters the umbra. The moon will move deeper and deeper into the dark umbral shadow until, during this particular eclipse, more than half of the moon will be obscured. After mid-eclipse the moon will move slowly out of the Earth's shadow.

Thursday night's lunar eclipse will begin at 10:05 p.m. when the moon begins to move into the penumbral shadow. The umbral phase begins at 11:25 p.m. and mid-eclipse occurs at 12:47 a.m. The moon will leave the umbra at 2:09 a.m. and the penumbra at 3:28 a.m. When the eclipse begins the moon will be high in the southeast. This eclipse should be

very interesting to watch since you do not need a telescope or even binoculars to enjoy it (although they would be helpful).

That's it for this week, HAPPY ECLIPSE-GAZING!!!!!!

Rotarians To Learn Of Cloning

Dr. Harold L. Crutcher will speak to the Tryon Rotary Club on the subject "Cloning-Development of Plants" at 12:30 p.m. Friday at the Pacolet River Plantation.

Dr. Crutcher is past president of the Asheville Rotary Club and of the Asheville Chapter, American Meteorological Society. He is president of the Western North Carolina Orchid Society and of the Blue Ridge Regional Men's Garden Club. Born in Cheraw County, Oklahoma, he attended Durant Teachers College, earning B.S. and B.A. degrees. He received his Ph.D. in meteorology from New York University.

Joining the National Weather Service in 1939, Dr. Crutcher held positions in Atlanta, Washington, Puerto Rico and Peru until 1950 when he came to the National Weather Records Center in Asheville. At the time of retirement he was acting director of the center.

Dr. Crutcher was awarded both the gold and silver medals from the Department of Commerce for contributions to national defense and the space program. He is the author of over 150 scientific papers and publications on meteorology and climatology.

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