

## EXPERT TELLS WHY ECLIPSE TAKES PLACE

Moon Gets in Earth's Shadow and Shuts Off Sun's Light.

This is the second of three articles on the eclipse of the sun on Aug. 26.

BY CAPT. FREDERICK HELLWEG  
U. S. N.  
Superintendent, United States Naval Observatory

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WASHINGTON, Aug. 27.—One of the most frequent questions is "What causes the eclipse?"

The moon revolves around the earth in its own path, called its orbit. This orbit almost is circular, and the plane of this orbit passes very close to the sun.

The moon has no light of its own. What we see is the reflection of the sun's brilliant light from the face of the moon, as a light is reflected from a mirror.

The moon is more than 2,000 miles in diameter and of course no light can pass through; therefore, the side of the moon away from the sun is dark, and the moon's shadow, like an enormous cone with the moon as its base, sweeps through space as the moon travels its orbit.

Gets in Other's Shadow  
The earth is about 8,000 miles in diameter, and it does exactly the same as the moon. The side of the earth toward the sun is illuminated brilliantly, and heated by the warmth of the sun. The side away from the sun is dark. We say it is night time there.

The shadow of the earth is an enormous cone of darkness sweeping through space as we travel our orbit.

As these two bodies speed through space with tremendous velocity, occasionally one gets in the other's shadow.

This can happen only when the sun, moon and earth are in a straight line.

Whenever is in the middle blocks the sunlight from the earth and we say there is a solar eclipse. But if the earth is in the middle we block the sunlight from the moon and we say there is a lunar eclipse.

The moon travels around the earth once in twenty-eight days. The moon's speed to make the trip averages about 1,112 miles per hour.

Eclipse Time Is Short  
The earth is spinning at the rate of 1,000 miles per hour so that you can see that a new section of the earth's surface is being continuously brought within the shadow of the moon's cone during the period of the eclipse. The earth also is traveling along its own orbit around the sun.

The result of all these motions is to make the time of the total eclipse at any point very short.

The relative motion causes one of the most awe-inspiring manifestations of the total eclipse. You suddenly are plunged into darkness. All living things seem to hold their breath; and over all this spreads a deathlike silence which is uncanny.

Almost immediately, the wonderful spectacle is over, the swiftly moving bodies of earth and moon get out of line with the sun.

The sun again appears as a thin crescent, rapidly grows, and the eclipse is a matter of history.

PLEDGE LOAN CAPITAL  
City Associations Raise \$500,000 for New Federal Bank.

Pledges totaling about \$800,000 for stock in the new Indianapolis federal home loan bank had been made by Indianapolis building and loan associations, it was announced today by Fernor S. Cannon, Marion County Building and Loan Association president.

Pledges have been made by forty of the fifty-one associations in the city.

## The Boat's In—



—and down the gang-plank come Mr. and Mrs. Clifford Smith. She's Claire Luce to you. The stage favorite and her husband were back in New York after a jaunt to Europe.

## BANJO WINNERS TO BE CHOSEN

Eddie Peabody Will Judge Times-Circle Contest.

Eddie Peabody will select the best banjo players at the Times-Eddie Peabody contest preliminary at the Circle theater at 9:30 Monday morning.

Every person living in Indiana, nonprofessional, is eligible to enter. The ten best selected at Monday morning's preliminary will appear in the finals on the Circle theater stage Wednesday night at the second stage show, when the audience will assist Peabody in picking the best.

Peabody, one of America's most celebrated record, stage, and motion picture stars, is appearing at the Circle theater in person for one week.

Prizes in the contest amount to \$50 in cash and every entrant has the privilege of having Peabody personally autograph his banjo.

Eddie Peabody Contest

Name .....

Address .....

Age .....

This admits bearer to Circle theater at 9:30 a. m. Monday, Aug. 29.

SEEK TO CUT EXPENSE OF COUNTY'S WARD

Budget Makers Ponder Means of Slashing \$150,000 Item.

Means of reducing costs for care of dependent children, as wards in private institutions, is sought today by county budget makers.

Councilmen hope to slash request of commissioners for \$150,000 for this purpose. A \$90,000 budget was insufficient last year, additional appropriations bringing the cost to \$108,000.

Juvenile Judge John F. Geckler said the county's dependent children had increased 25 per cent the last year. Institutions are paid 75 cents daily for care of each child.

Walter Botcher, council president, declared he had asked Geckler to cut this daily cost to 65 cents.

Juvenile authorities estimate the county has approximately 700 wards.

## FAIR WARNING! QUIT HOARDING DERBY BALLOTS

Votes Will Be Dated After Tuesday; Race Still Is Torrid One.

SKULL STANDINGS

Tom Quinn ..... 2,835  
"Cootie" McGinnis ..... 2,673  
E. W. Mushrush ..... 1,456  
Earl Cox ..... 513  
E. W. McKinney ..... 487  
W. E. "Bill" Williams ..... 314  
Henry O. Lewis ..... 301  
Judge Frank P. Baker ..... 298  
Ellis W. Pulstinger ..... 296  
Police Chief Mike Morrissey ..... 244  
Howard M. Meyer ..... 238  
Judge William H. Sheaffer ..... 234  
Bob Pogor ..... 184  
Clarence "Push" Marvel ..... 172  
Harry Bason ..... 102

ALL UNDATED BROWN DERBY BALLOTS MUST BE IN THE INDIANAPOLIS TIMES OFFICE BY TUESDAY MORNING.

Read that and weep, you derbyites who have been hoarding, a miser's greed, those square votes with the "kelly" on them.

After an all-night session atop a casket in Mr. Sweeney's morgue, the Brown Derby judges decided to date ballots in the contest to select the city's most distinguished citizen, beginning Tuesday morning.

Dated ballots must be cast in the Times office within twenty-four hours of their date. That means that Tuesday's votes must be in the Times or in the mail by midnight on next Wednesday.

Here's Another Rule  
Now for another rule in this un-ruly contest.

Monday but ten names, the ten highest, will be printed in the Skull standings. Any one at any time can edge into those standings if he musters votes enough to cut out the low man.

It will be the last guillotine to fall until the close of the contest.

The close, set tentatively for next Saturday-Sept. 3—may be extended to Sept. 6. The winner will be announced the day following the contest's close and he will be crowned the night of Sept. 8—Governor's day—at the Indiana state fair.

It was a three-horse race up to press-time today between Tom Quinn, "Cootie" McGinnis, and E. W. "Foxtro" Mushrush.

Watch for Dark One  
But strong rumors persist that out of the pack will come a Derby entrant that will flash toward the finish line an easy winner. Who is he? Yeah, who?

Watch each edition of The Times for standings, to get ballots, and to hear the latest bulletins from the unjudicial ravings of the judges, who never judged a porcupine in a bristle show.

Vote for Blank Blank or John Doe or anyone today to wear the BROWN DERBY, receive the plaque, at the fair on Sept. 8. You'll hear oratory you never heard before at his coronation and some oratory you'll never hear again. Get going!

KOKOMO MAN CHOSEN MECHANICS' COUNCILLOR

A. H. Dickey Elected as Order Closes State Parley.

A. H. Dickey of Kokomo was elected councillor of the Junior Order of United American Mechanics as the final session of the organization's state convention Friday in the Denison hotel.

Others named to office were Stanley Powell of Rising Sun, junior past councillor; Paul Ford of Indianapolis, vice-councillor; Clifford Becker of Indianapolis, state council conductor; Harold Shuck of Marion, state council warden; Harold Smith of Peru, inside sentinel; William Nicely of Muncie, outside sentinel; and Charles Chapman of Shelbyville, state council chaplain.

Those elected national representatives were L. R. Smock of Terre Haute, W. S. Powell of Rising Sun, and Dr. William Colburn Squires of Richmond.

## BUSINESS AND INDUSTRIAL NEWS

Pleasure Added to Auto Trips by New Type Radio

Distant Stations Can Be Tuned In Clearly by Improved Set.

Installation of radio on motor cars has added a great pleasure to driving and relieved the tedious monotony of long drives.

Like a great many other ideas, the working out of this idea was not so successful at first, for there is a vast difference in the installation of a radio in a quiet house and the installation in a running piece of machinery.

Engineers have worked out a radio especially designed for this. It is not an adaptation of something else, but a specialty for this purpose alone. It is the Motorola auto radio, distributed by Kruse Radio, Inc., 33 West Ohio street.

This company, which has been operating twelve years, is headed by C. J. Kruse, president, and E. L. Kruse, vice-president.

It sells the Motorola, the Sparton radio, Sparton mechanical refrigeration and radio parts and accessories, and maintains a service department that is among the best equipped in the state.

The Motorola is claimed to be the only self contained all electric motor set on the market, with no "B" batteries and no eliminator to install. Sets are made in eight tubes and in sixes. Each has perfect automatic volume control, full dynamic speaker and balanced units. It is declared to be of extreme sensitivity and amazing pick-up of distance.

Installations can be made without running the wires in any way, with the convenience of an illuminated tuning dial on the steering post as easy to tune in as sounding the horn.

Company officials say the easiest way to convince motorists of the superiority of the Motorola is to hear it. Being especially designed for motor use, the set has many features that will be of interest to radio fans.

Convenient terms can be given by dealers in Motorola, and especially by Kruse Radio, Inc. A visit to their retail store you will obtain full information, and the motorist can see for himself the superiority of a radio set intended exclusively for motor use.

## Fifty Years Experience Aids Sheet Metal Firm

Gardner Company Has Had Extensive Career in Business.

Few business houses in this part of the country have had the long experience of Joseph Gardner Company, 147-153 Kentucky avenue.

That experience, too, is of a kind that can be applied every day to its work in sheet metal, which includes just about everything in that line.

Many factories in the state owe their healthful conditions in ventilation to the skill of this company, which has specialized in ventilating devices, skylights, blow pipes, dust-collecting systems, tanks and hoppers of various kinds for large buildings, such as factories, hotels and schools.

The company in its long career has had so many of these jobs and profited so much by its experience that its installations always are effective and economical.

Activities include many different forms of sheet metal work, such as roofing, gutters, spouting and practically everything that applies to a building in that line.

They also include the manufacturing of sheet metal backgrounds for display windows, milk cans and other dairy supplies; chimney tops, smoke and other piping and castings.

Work is done in copper, tin and sheet iron and steel. One of the outstanding displays of the company's workshop is in the copper lights and lanterns used in the Hollywood hotel, Hollywood, Fla.

The company has done a large number of installations of various kinds in many states.

Management is in the hands of the third generation of the family. Each generation has been careful to see that the high standards set for the business in 1882 are maintained.

Courteous, efficient and responsible business relations are maintained with a long list of permanent customers, and when sheet metal work is discussed, some one is sure to say, "Let's see Joe Gardner," and the matter is settled.

## Radio Dial Twisters

WFBM (1200) Indianapolis Indianapolis Power and Light Company SATURDAY

P. M.  
5:30—Transcription.  
5:45—Do Re Mi (CBS).  
6:00—Edwin C. Hill (CBS).  
6:15—Bohemians.  
6:30—U. S. Army band (CBS).  
7:00—Ann Leaf at the organ (CBS).  
7:30—Lillian Jones orchestra (CBS).  
8:00—Musical comedy (CBS).  
8:15—Public affairs institute (CBS).  
8:30—The Melodians (CBS).  
9:00—Dancing by the sea (CBS).  
9:15—The Melodians (CBS).  
9:30—Guy Lombardo and Royal Canadians.  
10:00—CBS Chorus.  
10:30—Noble Sissie orchestra (CBS).  
11:00—Sign off.

SUNDAY  
8:00—Madison square (CBS).  
8:30—Salon orchestra (CBS).  
9:00—Musical comedy (CBS).  
9:30—Christian Men Builders.  
10:00—Noon-Silence.  
10:30—Three Minute Men (CBS).  
P. M.  
12:30—Records.  
1:30—Symphonic hour (CBS).  
2:00—Poets Gold (CBS).  
2:30—Round Towners (CBS).  
3:00—Little Jack Little (CBS).  
3:30—Wheeler City Mission.  
4:00—Roses and drums (CBS).  
4:30—Four Elton boys (CBS).  
5:00—The Melodians (CBS).  
5:30—Theo Karle (CBS).  
6:00—Grand opera laboratory (CBS).  
6:30—Wm. Hall and orchestra (CBS).  
7:00—Grand opera miniatures (CBS).  
7:30—Parade (CBS).  
8:00—Gem highlights (CBS).  
8:30—Caucasia (CBS).  
9:00—Ann Leaf at the organ (CBS).  
9:30—Gus Arnheim orchestra (CBS).  
10:00—Columbus.  
10:30—California melodies (CBS).  
11:00—Sign off.

WLBZ (1400) Indianapolis (Indianapolis Broadcasting, Inc.) SATURDAY

P. M.  
4:30—Tea Time Tunes.  
4:45—News flasher.  
5:00—Vaughn Cornish.  
5:30—Dinner melodies.  
6:00—Cecil and Sally.  
6:30—Baseball scores.  
6:45—Golden melodies.  
7:00—The Melodians.  
7:30—Rus-Del-Ray trio.  
7:45—Vaughn Cornish.  
8:00—Orchestra.  
8:30—The Jewel Box.  
8:45—The Rangers.  
9:00—Sign off.

SUNDAY  
A. M.  
6:30—Brown County Revelers.  
9:45—Varieties.  
10:00—Watchtower program.  
10:15—Sacred concert.  
10:30—Crystal melodies.  
11:30—Late releases.  
12:00 Noon—Dinner tunes.  
P. M.  
12:15—Dessa Byrd.  
1:00—Baseball scores.  
1:30—Indianapolis-St. Paul baseball game.  
3:30—Cade tabernacle.  
4:45—Carrillon concert.  
5:00—Silent.  
5:15—Joseph Cherniavsky dance orchestra.  
6:15—Baseball scores.  
6:30—Marshall Piers.  
7:00—Vaughn Cornish.  
7:15—Louise Spillman.  
7:30—Twilight Reveries.  
8:00—Cade Tabernacle.  
8:15—Local Varieties.  
10:00—The Merry-men.  
10:30—Sign off.

WLW (700) Cincinnati SATURDAY

P. M.  
4:30—Saturday serenade.  
4:45—Doctors of melody.  
4:55—"Law for the Layman."  
5:00—Amos 'n' Andy (NBC).  
5:15—Josef Cherniavsky dance orchestra.  
6:00—Bob Newell.  
6:45—Southern singers.  
6:50—Blue Moments with Jean Boaz and Jack Douglas.  
6:55—"Chandu" the Magician.  
7:00—Crozier Castles, male octette.  
7:05—Over the Rhine.  
7:15—String quartet.  
7:30—The First Nighters (NBC).  
7:45—The Tyra's Four.  
8:15—Duke Ellington's dance orchestra.  
8:30—Bands of Distinction.  
8:45—Josef Cherniavsky's orchestra.  
9:15—Crosley follies.  
9:30—Vocal Varieties.  
10:00—Doodiesocks.  
10:30—Charles Agnew's orchestra (NBC).  
11:00—Moon River, Slumber Music.  
11:30—Duke Ellington's dance orchestra.  
12:00 Midnight—Sign off.

NOTICE—Manufacturers and Jobbers SPACE FOR RENT Complete Housing Facilities for Large or Small Plants Private switches, served by Bell, R. & traction lines, connecting with all railroads. Watchmen Service Free Indianapolis Industrial Center 19th St. and Martindale Ave. Cherry 1945

## MINERAL WATER IS HELD TO BE HEALTH BENEFIT

Advantages of Resort Now Are Available in Crystal Form.

Texas is remarkable for a number of things of unusual advantage to the rest of the world. Among these perhaps the most remarkable is the water at Mineral Wells.

In fact, Mineral Wells already has become one of the outstanding health resorts of the world because of the stomach, bowels, kidneys and liver. Amazing benefits are reported regularly and the number of persons who have been ill and have benefited at these wells is large.

Not every one can go to Texas; consequently the next best thing is to bring the water to the homes of suffering individuals.

The water is sought by persons suffering from such ailments as rheumatism, high or low blood pressure, diabetes, neuritis and diseases of the stomach, bowels, kidneys and liver. Amazing benefits are reported regularly and the number of persons who have been ill and have benefited at these wells is large.

Water Is Evaporated  
Since it is the minerals in the water that make it so effective, some genius conceived the idea of evaporating the water down to the minerals, and thereby produced what is known as crazy crystals—the natural product of the mineral wells with the water itself evaporated.

Many Indiana residents use them. They say these crystals bring to their homes a great health resort. The Crazy Crystal Company opened a downtown exclusive Crazy Crystal store at 114 East Washington street.

A level teaspoon of the crystals to a pint of water is the usual way in which the water is prepared. The eliminative process cleans up the system and gives one a chance to get well. It is claimed for these crystals that when directions are followed they will cleanse the intestines promptly, clear the blood stream of poisons and neutralize acidity, promote eliminative processes and help the liver and kidneys in their functions.

Discovered 50 Years Ago  
The name "Crazy" comes from the first recorded curative effect of these waters, fifty years ago, when two hysterical women were relieved of their troubles through drinking the waters.

At that time the first well was given the name of "Crazy Women Well" and later the water came to be known as the crazy water. When they began to make crystals of this water the only logical name for them was Crazy Crystals and that is the origin of this unusual name.

Since the crystallization process was developed, the Crazy Crystal business has developed to enormous proportions. Until now the crystals are sold throughout the United States and in many foreign countries.

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This insulation insures greater economy of ice and food.

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