

## Looking Upward

These warm August nights will have most of us outside at one time or another, and undoubtedly someone will call attention to a flurry of falling stars, or meteorites.

These showers will be with us almost constantly during the month of August, although the "show" will vary greatly each night.

The most abundant and reliable show of the year is that put on by the Perseids, reaching their climax about Aug. 11. Watchful observers can often see as many as 50 in an hour. They may be seen in parts of the sky, but seem to radiate from the constellation Perseus, which will be low in the northeast about 11 p.m. By August 11 the moon will be reaching its last quarter, and will obscure only the fainter meteors.

Another shower, the Delta Aquarids, began late in July and will continue until Aug. 7. They appear to radiate from a point in the constellation Aquarius, low in the southeast at 11 p.m.

Continuing until Aug. 22 will be the Capricornids, which also began in July. Their radiant, or apparent point of origin, is in Capricornus, nearly straight south at 11 p.m.

From Aug. 10 to 20, there will be visible a mild shower radiating from the region of Kappa Cygnus, which will be overhead at 11 o'clock, a little east of bright Vega.

Meteor showers are caused by the earth running into swarms of meteoroids, thought to be the debris of extinct comets. These swarms move in orbits about the sun, and when the earth moves into their orbits, it captures some of them, which burn as they enter the earth's atmosphere. Most meteoroids are quite small—one a fraction of an inch in diameter can appear as bright as a first magnitude star when it burns, if it is moving fast enough. They are called meteors when they burn, and meteorites if they survive and fall on the earth.

Meteors associated with a shower appear to come from the same point in the sky because they are moving through space in parallel paths—to us, their paths appear to converge in the distance, like the parallel rails of a railroad track.

More meteors can be seen after 1 a.m. than before, since then we are on the "forward" side of the earth as it moves around the sun—we are running into the meteoroids. Before midnight, those seen are only the faster ones which catch up with the earth.

No one knows what to expect of a shower on a given year. Sometimes the earth runs into a greater concentration of meteoroids in a swarm than in other years, sometimes less. If you watch carefully after midnight this August, you may be rewarded with a fine display, or maybe only a few. Happy hunting!

21

## TV PROGRAMS

Central Daylight Time

WANE-TV  
Channel 15  
THURSDAY

Evening  
6:00—Life of Riley  
6:25—Now I'll Tell One  
6:30—Tom Calenberg—News  
6:35—Doris Edwards—News  
6:40—Sea Hunt  
7:30—Invisible Man  
8:00—Playhouse of Stars  
8:30—Jungle King  
9:00—Zane Grey Theater  
9:30—Markham  
10:00—Adventure Theater  
10:30—The Tenth Month  
11:00—Phil Wilson—News  
11:15—Slight Case of Murder

FRIDAY

Morning  
7:30—Pepperpot Theatre  
7:45—Willy Wonderful  
8:00—Candy Castle  
8:15—Captain Kangaroo  
9:00—Coffee Cup Theater  
10:15—Passport to Beauty  
10:30—Video Village  
11:00—Movie Land  
11:30—Clear Horizon

Afternoon  
1:30—Games of Life

2:30—Search for Tomorrow  
2:45—Guiding Light

2:45—Ann Colone  
3:00—Candy Castle

3:30—As the World Turns

3:45—Full Circle

3:45—Houseparty

3:45—The Movie Makers

3:45—The Verdict Is Yours

4:00—Brighter Day

4:15—Secret Storm

4:30—Adventure Theater

4:45—Dance Date

4:45—Dance