Moon, Gemini twins form heavenly triangle

On the morning of Nov. 17, the mon forms an elongated triangle with Poliux (FAWL lux) and Castor, the twin Stoliux (FAWL lux) and Castor, the twin stars in Gentini. Each star represents a "head" of one of the twins Poliux is to the north relight of the twins Poliux in the twins Poliux. That morning is also when the Leonid meteor shower reaches it maximum. The Leonids are named for the constellation of Leo, which is east (left) of Germin and looks like a claim tackward question mark. The Leonids are no more impressive than the S. Taurids were earlier this month, expect an average of 15 meteors each hour. The Leonids are no more impressive than the S. Taurids were earlier this month, expect an average of 15 meteors each hour. The Leonids are notable for having been very speciacular in 1833 when thousand of meteors it up the sky.

Such a display is not expected in 1899. There is, however, a 33-year cycle in the Leonid display. If you wait until 1999, the Leonids may put on a very impressive show.

The bright star to the east (left) of

wan untu 1999, the Leonids may put on a very impressive show. The bright star to the east (left) of the moon on the morning of Nov. 19 is Regulus (IRGO u lus), the "heart" of Leo the lion.

is Regions (LEA') it usy, the "neart of Leo the lion.

Last-quarter moon is at 11:44 p.m. Nov. 19. The moon is starting the last quarter of the moon is starting the last quarter of the starting of Nov. 20 p.m. of the moon is the triple of Nov. 20 p.m. of Nov. 24. The bright star to the cast (left) of the moon is Spica (SPV. 20). The position of the moon also points us to the location of a new comet, one that could be visible to the naked eye!

COMET Okazaki-Levi-Rudenko (named for all three of its discover-ers) was first seen telescopically in

August.
Kiyomi Okazaki photographed it
Aug. 24 with a 10-inch Schmidt camera.
Veteran comet hunter David
Levi of Arizona spotted it visually
with his 16-inch reflector telescope
the following night, and Michael Hu-

stellation Bootes (bo Olf tees.) which is north of (above) Virgo, into Virgo itself. On Nov. 24 the comet will be near Spica, just above the upper cusp of the waning (fading) crescent moon. The comet will certainly be visible with binoculars, and might even be bright enough to be seen with the naked eye.

OF ALL the objects appearing in our sky, one of the most exciting to see is a comet. The word "comet" comes from the Greek word "kometis," which means "hairy star." A comet looks like a

"hairy star." A comet looks like a furry star." Because a bright comet is rarely seen, the appearance of one usually terrified the ancient skywatchers. Most believed comets were mysteri-ous objects; they would appear unex-pectedly, then slowly fade from view. All kinds of stories were con-cocted to explain the reason for their appearance.

IT WASN'T until an English astronomer named Edmond Haltey (IIALL ee) came along that our understanding of comets began to improve. He had noted a regular 76-year Interval where historical records made mention that a bright comet had appeared.



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denko of Massachusetts did the same with a 6-inch refractor Aug. 26. It has been moving from the con-stellation Bootes (bo OH tees.) which



skywatch Raymond E. Bullock

Halley made the very daring pro-posal that comets orbited the sun and predicted that this same bright comet would return in the year 1759. What made this prediction all the more remarkable was that it was made at a time when the orbits of the planets weren't fully understood. Many laughed at Halley, but the comet did return. To honor his pre-diction, the comet was named in Halley's honor. But he did not live to see his prediction fulfilled. He would have been 102 years old if he had:

A COMET can appear in any part of the sky at any time of the year. Infamous Comet Kohoutek was seen in 1973 and named for the man who first spotted it when it was far from

Comet Kobayashi-Berger-Millon was seen in 1975 and named for all three of its discoverers. Comet West appeared in 1975 and put on a magnificent display in the pre-dawn sky. The recent appearance of famous Comet Halley was not expected to be exceptional, and it lived up to those expectations.

exceptional, and it lived up to those expectations.

A comet is the biggest bunch on onbing to be called something there is. It's not much more than a dirty snowbalt, frozen dust, i.e., and gas orbiting the sun.

As a comet approaches the sun, a tail begins to form and the comet becomes visible. The comet's tail is usually to the comet with the comet heat up and vaportus. The sun blows the stream of vapor out into

space, causing the tail to always point away from the sun.

wilen A COMET disintegrates, all its debris continues to follow the same orbit around the sun. As the Earth passes through the stream of debris, we have showers of particles falling through our atmosphere. We can predict when the Earth will enter the stream, so we know when the major meteor showers will occur. It is very difficult to predict exactly how impressive for unimpressive) Comet Okazaki-Levi-Rudenko will become. We are not certain that a related spectacular meteor shower will be seen.

The only certainty is that the opportunity of seeing a bright comet is every rare. Everyone should make an attempt to see this one. The mon points right to it!

THE MOON also points the way to

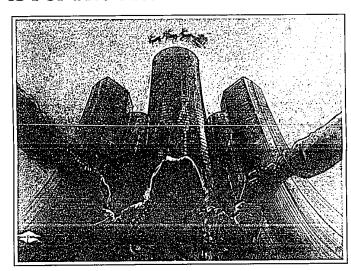
THE MOON also points the way to THE MOON also points the way to Mars on the morning of Nov. 26. Face the southeast, approximately 45 minutes before sunrise, to see the moon. Five degrees to the east (left) of the moon is Mars, the red planet. Using binoculars, look for a star

named Alpha Librae (LEE bray), almost directly above Mars.
Alpha Librae also has a real name as well: Zubee Elgenaly (ZO) ben elgen U b), which means the 'southern At one time, the neighboring constellation of Scorpius Included this air as its southern claw 'as well, lett Librae is named 20 of course there is a "northern claw" as well, lett Librae is named 20 then Eschamali (ZOO ben es she MA II.)

NEW MOON is at 441 a.m. on Nov. 28. The moon is between the Earth and the sun, and is not visible. Face west, une-half hour after sunset, Nov. 29. Venns is about as for south (left) of Salurn, as Saturn was south of Venus four weeks carlier. On the evening of Nov. 30, the two-day-old erescent moon is five degrees below Saturn.

An excellent aid for learning constellations and keeping up to date with the sky is the monthly "Sky Calendar." A one-year subscription is 5. It is available from Abrams Planetarium, Michigan State University, East Lansing 48824.

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