## club circuit

THE SINGLE-AIRES begin publication of a new newsletter for singles called Singles Lifestyle to serve the greater Detroit area this month. The newsletter will include an advice column, travel features, astrological foreasts for singles, reviews of movies, books and restaurants, travel and for singles reviews of movies, books and restaurants, travel reatures, personal ads and regular columns called "Helping Hand for Singles." Things to bo for Singles" and "Singles Lifestyle and the Lively Ones are now off-shoots of the original club. The group is based in Birmingham, but now draws members from throughout the area.

Subscriptions for Singles Lifestyle and sent to Bas fells, Birmingham 48012.

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All club news and announcements for this column are to be addressed to Clip Circuit The Manual New Year's Day to Linck dinner and dance at 5 pm. in the home of Liz Rode, 3860 Old Creek.

Subscriptions for Gestaurants and the Circuit for Thursday publication.





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## Sky watch

## January offers partial eclipse

By RAYMOND E. BULLOCK

January offers a fairly nice meteor shower, brilliant winter constellations, some interesting planetary groupings, and a partial eelipse of the moon. Since the earth's orbit is elliptical, or distance to the sun varies through

Since the earth's orbit is elliptical, our distance to the sun varies throughout the year. On New Year's Day, the earth is closest to the sun (Perhelion). So why is it so cold this month? Because our seasons are not related to distance, but rather to the tilt of the earth. In January, the northern hemisphere is titled away-from the sun, thus we experience winter.

The Quadrantid meteor shower reaches maximum on Jan. 3, with an average of about 40 meteors visible

every hour. The best way to observe the shower is to get as comfortable as possible in a reclining chair and look up toward the north. Most meteors will be visible after midnight. Morning skywatchers will see the brilliant planet Venus about 3 degrees south of the waning crescent moon on Jan. 4. Higher in the southeast are Ju-piter and Saturn. Jupiter is the brighter.

ON JAN. 14, Jupiter will be about I degree below Saturn. This is the first of three conjunctions (groupings) between these two planets in 1981. Watch as Jupiter slowly drifts away from Saturn as each day passes.

A partial eclipse of the moon is visi-

ble from our area on the morning of Jan.,20. The ecilipse begins as the moon passes into the earth's shadow at 12:35

passes into the earth's shadow at 12:35 am. The top half of the moon will appear darker than the bottom half. The eclipse concidee at 5:03 a.m. and the proceeding of the processible to spot Mewreury and Mars in consjunction on Jan 23. Mercitry will be less than 1 degrees south of the red planet, but they will be only 5 degrees above the southwestern borizon at 5:30 pm. Ai unobstructed borizon and binoculars may help you spot them.

On Jan 25, the Moon, Jupiter and Saturn will form a trio high in the southeast in the morning sky.

THE WINTER constellation Orion is very prominent this month. Look for three stars forming a straight line high in the southeast after sunset. The two



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