

# JUPITER IS CHIEF ATTRACTION IN THE HEAVENS

Saturn, Uranus, Neptune  
New Moon, Earth In  
Aphelion, Milky Way.

The planet Jupiter is the central attraction this month for observers of the evening sky. It is the brilliant star seen in the southeast as soon as it is dark enough. It rose on the 1st at 7:30 p. m., and several minutes earlier each succeeding evening. Tonight it is opposite the sun, and rises before sunset after that date. The quadrilateral of stars below it forms the bowl of the "Milk Dipper" in Sagittarius. In the course of the month the planet moves toward the right or westward with regard to these stars. Observers who watch the movements of the four bright satellites with a telescope may see transits of a satellite and its dark shadow on the evenings of the 3rd, 13th, 15th, 20th, 22nd, 28th. Satellite I and its shadow cross the disk on the 15th and 22nd, satellite II and its shadow on the 13th and 20th. The shadow precedes the satellite I on the 3rd, in all other cases the satellite is followed by its shadow.

The overpowering size of this planet is one of the astonishing facts proved by astronomical study. The sun has nearly ninety-nine and nine-tenths of all the material particles in our group of heavenly bodies, and all the planets are but pigmies in comparison. But Jupiter has nearly three-fourths of all the particles found in the planets, while our earth has but about one-fourth hundredth. Jupiter's mass is 318 times that of the earth. It is the king of planets, if size is the measure of royalty, although a humble subject of the all-powerful solar king. It shows its mass superiority by influencing most powerfully the paths of the smaller bodies which pass near it. The group of small planets which are mainly situated between Jupiter and Mars have their motion materially modified by its attraction, and comets which pass near him suffer still greater disturbance. One of the most laborious parts of the calculation of the orbits of planets and comets is that which takes account of Jupiter's disturbing action.

Halley's comet was observed in 1909 and 1910 several months earlier than would have been the case had not Jupiter accelerated its motion. A comet first seen in 1889 had its period shortened from more than twenty years to seven years because it went very near the planet. A large number of comets, nearly forty in all, have been found to move in orbits whose greatest distance from the sun is nearly that of Jupiter's distance. The fact that there are many small bodies between Jupiter and Mars, instead of one large body as in other parts of the solar system, is probably due in some way to his great mass. The tabulation of the orbits of these small planets shows gaps in some regions and bunches in others, which can be explained as a result of Jupiter's attraction, and there are at least four small planets which move in such a way that the distance between sun and Jupiter, sun and planet, and Jupiter and planet are nearly equal to each other—a special case under the law of gravitation. Several of the small satellites of Jupiter are probably bodies which at some time have been captured by him and compelled to revolve around him. Jupiter's part in the gravitational theory of planetary and cometary motion is therefore very important in that branch of astronomy.

Several other events in planetary annals occur this month. Mercury can be seen in the evening, about three-quarters of one hour after sunset, in the first ten days. One should look above the sunset point a few degrees farther south. The planet shines with about one-half its greatest brightness and therefore will not readily be found. Venus, on the 3rd, reached its greatest distance west of the sun, and will gradually draw nearer the sun as the mornings follow each other. It is the brilliant star seen long before sunrise in the northeast. On the 1st it rose at 1:35 a. m., and on the 31st will rise at 1:20 a. m.

Saturn is also in the morning sky, rising on the 1st at 2:30 a. m., and on the 31st at 12:45 a. m. On the 21st it is nearest the planet Venus.

Mars comes into no position which has a special name, but it is drawing near the time when it will be conspicuous in the evening. It rose on the 1st at 12:50 a. m. and an hour earlier on the 31st. It is twice as bright as a few months ago, and may be compared in both brightness and color to Aldebaran, toward which it is moving in the constellation Aries.

The two planets, Uranus and Neptune, which have for many months been in opposite parts of the sky, reach designated positions this month. On the 18th Neptune passes behind the sun; it cannot be seen, therefore. On the 29th Uranus is opposite the sun, rising nearly at sunset and setting at sunrise. As far as time is concerned, this planet is in its best position for examination with a telescope, but as it is 19 degrees south of the equator it is too low for the best view from northern latitudes. It is in the constellation Capricornus, and on the 1st had right ascension 20 hours, 37 minutes, declination S. 19 degrees 15 minutes. It rose on that date at 8:55 a. m.

The July Moon this year was New on the 4th, and when first seen the following evening was in the northwest about 4 degrees south of the planet Mercury. First Quarter is reached on the 10th, Jupiter is passed on the 16th and Full Moon occurs on the 18th. While the evenings are moonlit in the middle decade of the month, the Moon will be very low in the south, lowest on the 15th. The Moon is at Last Quarter on the 26th and passes Mars on the 28th, Saturn on the 29th, Venus on the 30th.

An interesting event each July is the arrival of the earth at the point in its orbit known as aphelion, or its farthest point from the sun. The earth is 3,000,000 miles farther from the sun than on the 1st of January—a fact hard to realize in the middle of our northern summer. The earth receives 6 per cent less heat from the sun than in January, which modifies slightly the temperature in northern latitudes, but evidently not enough to be noticeable.

A feature of July evenings each year is the advancing in the east of the part of the Milky Way which is split into two branches. If one is away from electric illumination, this part of the heavens is seen to be of peculiar beauty. Cygnus, marked by the Northern Cross, is in the northeast; Corpie, marked by the kite-shaped configuration, is in the south. In the southeast is Sagittarius, marked by the Milk Dipper and honored this year by a visit from Jupiter. The Milky Way divides in Cygnus, the western branch crossing Serpens and Ophiuchus and reaching Scorpio. The eastern branch crosses Aquila, the bright star Altair glistening in its path, and reaches Sagittarius. Below our southern horizon the two branches unite. The two branches are very irregular, with bunched regions and empty spaces, and form a picturesque part of the heavens, of quiet beauty.

This month testifies to the unflinching advance of the season and offers the first hint of coming winter in the shortening of the days by five minutes.

## LAST OF HORSE CARS ARE TO BE BANISHED

NEW YORK, June 25.—After many reports that New York, claiming the most up to date transportation system in the world (a claim at which thousands of strap hangers have scoffed) was finally to see the last of its antiquated horse cars, the statement is now authoritatively made that the last of these prehistoric vehicles is soon to vanish. Thus will vanish the last vestige of the first evidence of the city's rail transportation service.

To many people who frequent only the heart of the city the fact that horse cars are still running here will come as a surprise. As a matter of fact while New York has a considerable horse car system, it is operated only on a few cross streets and on a belt line running along both water fronts which are seldom visited by the majority of the city's residents.

Now, however, the most modern storage battery cars are to supplant the ancient vehicles, and with their coming will vanish a number of characters well known along the water fronts, since some of the drivers have been bumping around the city behind their horses for more than a generation, and one has been a car driver on the same run for no less than forty-two years. He has seen a good many noted people step on and off his car. There was Horace Greeley, for instance, who rode every day on the Belt Line, and had his arms always full of a fat, bulging pillow with which to make softer his seat. For the cars of those days had no wicker or springs in their seats, but sheer slabs of wood, which jounced and clattered with each bump on the tracks.

## WARM AT TOPEKA.

TOPEKA, Kas., July 5.—It was the hottest day of the year here and the mercury was ninety at midnight.

# HUNT'S SEAT WILL FIT HIM, SO HE SAYS

(From Tuesday's Daily.)

Dr. Hughes delivered an interesting speech from the Plaza bandstand on the subject of capital punishment Sunday evening. The Phoenix physician treated the subject scientifically and historically and his sentiments were roundly applauded. Afterwards he was personally congratulated by a score or more of people who assured him they were in sympathy with the sentiments he had expressed.

It will be of interest politically for the people of Yavapai to know that Dr. Hughes is already building his fences with a view of corraling the Democratic nomination for Governor at the primaries next year. He is of the opinion that he can come out of Maricopa with 1000 votes over his opponents and thinks if he can break even in the rest of the counties he can capture the persimmon.

## PHOENIX KANNEKES LOOP AUTO RACE

(From Sunday's Daily.)

Phoenix came to Prescott and took away the main prize for the twice-around-the-loop race with a Pope-Hartford car, the same machine that has traveled over 100,000 miles of all kinds of roads and which is yet able, judging from its showing yesterday to give a good account of itself and make the speedometer keep busy for quite a little time to come. Truman was the man at the wheel and upon the completion of the race was congratulated by Prescott as well as Phoenix people. His time for the 86 miles was 2 hours, 19 minutes, 37 seconds. The Pope started second, at 9:50 o'clock five minutes after the Studebaker, made the Junction at 10:18, Prescott on the first lap at 10:55, Junction on the second lap at 11:23 and Prescott again in the time above noted.

The race was a vivid reminder of the little negro babies sitting on the wall. They kept dropping out one by one until there were only two left, the winner of the race and Albert Hatz in his Elmore. The latter got second place but he was like the boy who stood at the head of the class, it happening that he chanced to be the only member of the class. Hatz had more than his share of hard luck. His timer went on the blink and besides he had to limp around the Loop on three of his four cylinders, but he gamely kept his car going and therefore came within the money. His time was three hours and more. The Chalmers, Studebaker, Perry and Stearns-Knight fell by the wayside at various points during the first and second laps and did not reach the city until several hours after the sun had passed the meridian.

The Studebaker had more than its share of hard luck. Its running time to the Junction was three minutes faster than that of the Pope-Hartford but above that point it threw a tire. Another one was substituted but rounding a sharp curve at the top on the hill, the same mishap occurred. Mr. Dolly states that the tire trouble was due to the fact that only 40 pounds of air was pumped into the tube instead of 50 pounds as he had ordered, and he is willing to wager \$250 that he can beat the Pope-Hartford over the same course.

Yet with all the accidents and mishaps the race was thoroughly enjoyed by an immense throng. Thousands of people congregated at the starting point and along Gurley street and cheered the intrepid drivers who were fortunate enough again to reach the starting line.

The speed course, as it run through Prescott, was well patrolled by Sheriff Keeler and his efficient deputies and there was, on account of the caution they exercised, not even a near-accident.

The motorcycle race, which was started previous to the auto race, was won by Paul Keating, he negotiating the distance of 43 miles in 58 minutes and 30 seconds. Roy Belding was second, time 58 minutes and 52 seconds. Travis finished third, time 66 minutes and 40 seconds. These riders also received their share of the applause which the crowd bestowed on the participants in both events.

## STILL AT LARGE

(From Tuesday's Daily.)

Although every effort has been made to capture Florencio Ruiz, accused of stabbing his wife several times at their Granite street home last week, the Mexican remains at large. Mrs. Ruiz is at the county hospital, and although her recovery is expected, she is however, in a critical condition from two of the wounds received, one in the neck near the jugular vein and the other five inches deep over the kidneys.

# CITY NEWS :: IN BRIEF

(From Sunday's Daily.)

## Small Land Deal.

U. W. Bosley has sold to W. C. Beckman, for \$350, a certain strip of land in Skull valley, the deed being filed for record yesterday.

## To the Coast.

Arthur Robinson left yesterday for San Diego, Los Angeles and other coast resorts to enjoy an outing for the next month and to visit with his mother, son and other relatives.

## Business Trip.

E. A. Sawyer, one of the best known residents of Northern Arizona, is in the city on business. He is the pioneer merchant of Winslow, and heavily interested in the livestock business.

## To Capital City.

Miss Madeline Day, assistant chief operator of the local telephone service, left yesterday for a two weeks' visit in Phoenix with Mrs. E. E. Retzer, the latter being until recently a resident of this city.

## Renewing Old Times.

Archie Grant, contracting carpenter, formerly a resident of this city, has returned from Flagstaff to remain for a few days visiting with his many friends, and for a trip of recreation to old-time scenes.

## To Supply Pulpit.

Rev. H. B. Roberts of Tucson will supply the Congregational pulpit through the summer. Communion service will be held today, with sermon on "The Jewels of God." The evening service will be omitted.

## Mining Transaction.

The Home Run mine on Big Bug creek has been purchased by R. J. Henderson from J. C. Ray and Nap Waltermeyer, the deed being filed for record yesterday, in which the consideration was not given publicly.

## At the Old Home.

Among the well known Arizonans in the city is Mark Delanty, of Phoenix, resident agent of the Brunswick-Balke Company, who has set aside business cares and is renewing old-time associations. Mr. Delanty was formerly a resident of this city.

## From the Capital.

Among the prominent residents of Phoenix attending the Frontier Day doing is Assistant State Treasurer Murphy, who meets many old-time acquaintances and friends here. He was formerly with the Vulture Mines company, in a confidential capacity.

## Will Remain.

Mr. and Mrs. Luther Collins, of Phoenix, have concluded to spend the rest of the month in the city, the attraction being the climate, and a tent in the pines will be their habitation, they making this announcement yesterday after a two days' sojourn.

## Northern Visitors.

Mr. and Mrs. Fred Coulter, and Fred W. Nelson, County Attorney of Apache county, were among the visitors to the city during the week, accompanying E. S. Clark of the city from St. Johns. They return home in a few days and are very much pleased with the celebration of the natal day in this city.

## Concludes Visit.

Mrs. Luke Henderson, formerly a resident of the city, returned to her home in Phoenix yesterday after several days of a visit with her brother Nelson Puntenney, in Big Chino valley, and her sister, Mrs. Charles B. Braon, who is sojourning here for the summer from the Monte Christo mining camp near Constellation.

## Conclude to Remain.

Mr. and Mrs. Percy Woodson and niece, Miss Elsie Hartrant, of El Paso, Texas, who were en route home from the coast, have concluded after a two-day sojourn to remain for several weeks to enjoy the mountain climate of Prescott. Miss Hartrant had been on the coast for some time for her health, but has received more benefit in the few days here than in weeks in California.

## Wedding Journey.

Mrs. George Heisler, accompanied by her daughters, the Misses Carrie and Katie Heisler, and Miss Mamie Bohach, left yesterday for Los Angeles, to remain for the summer. It will be learned with considerable interest that Miss Carrie Heisler will be married in that city on Monday, the name of the groom being announced later, and they will reside in that city in the future.

## Visiting Old Home.

Mrs. Robert Brow was among the many from Phoenix during the week coming on business as well as a pleasure. She is the proprietor of the Colonial, popularly known throughout the southwest as a lodging house, and received a welcome from her many friends in this section. Mrs. B. J. Donnelly, of Little Rock, Ark., a sister, accompanied Mrs. Brow to the city.

## Pioneer Visitor.

Louis Dugas, of Cave Creek, Maricopa county, one of the best known of Hassayampers, is in the city, coming to enjoy the Frontier Day and again mingle with old-time associates after an absence of many years. He is a mine owner in the south, and stated yesterday his holdings are under negotiation of a sale to eastern investors, the deal to be closed up during the present month.

His son, Fred Dugas, of Sycamore creek, is also in the city.

## Prescott Pioneer.

Frank Luke, member of the Board of Supervisors of Maricopa county, is among the Phoenix visitors, and it is useless to state he is receiving a warm welcome from many Hassayampa friends and acquaintances. He was a resident of the city when a boy, and is the son of one of the city's first mayors, now deceased. Mr. Luke retains valuable mining interests in the Bradshaw mountains. He is a brother of Judge Luke, who resides at Congress Junction.

## Among the Pines.

Col. and Mrs. J. E. Price, of the Salt River valley, accompanied by their daughter, Miss Mildred Price, and grand-daughter, Miss Bertha Jackson, of Minerva, Ohio, are in the city on a camping-out expedition among the pines for the rest of the month. Col. Price is a veteran of the Civil war. Every summer he visits this section, always making the trip north in the good old-fashioned way—by team. He is a large land owner in the south, and a pioneer well known to many.

(From Tuesday's Daily)

## Visiting Miner.

Sam Parker, owner of the Pick-away mines, on Lower Turkey creek, is a business visitor to the city.

## Visiting Merchant.

A. Stunkey, mineral and merchant of Walker, is in the city for a few days on business, and is at Brinkmeyer's hotel.

## To the Coast.

M. and Mrs. Adolf Moser left yesterday for San Diego, Cal., for a two months' visit with their son, and other relatives.

## Licensed to Wed.

A marriage license was issued Saturday to Mrs. Caroline Ungles and W. H. Roy, both well-known residents of this section.

## Buys Realty.

W. B. Shevley has purchased from the Santa Fe Pacific Railroad company six lots in Ash Fork for \$475, the deed being filed for record yesterday.

## Exceptional.

During the Frontier Day celebration City Judge Robinson reported not a single case on the calendar of his court, an event that had not been recorded in many years.

## Tame Game.

A game of baseball on Sunday afternoon between the nines of Humboldt and Prescott resulted in a victory for the visitors by the score of 18 to 15. The attendance was small.

## Making Observations.

E. C. Suman, a mining operator of the southern part of the State, arrived yesterday from Tucson, to look over the mineral conditions of this field and to remain indefinitely.

## Visiting Relatives.

Miss Louise Petit, daughter of Mr. and Mrs. Joseph Petit, left Sunday morning for Merced, Cal., where she will remain for the Summer with her grandparents, Mr. and Mrs. S. K. Fansler.

## Home for Vacation.

Oliver Nelson has returned home from California where he has been attending college, to remain for several weeks to enjoy his vacation. He was extended a greeting from many friends.

## In Harness.

Judge W. H. Marum, recently appointed justice of the peace of Hill-side precinct, qualified yesterday by filing his official oath and bond with the U. S. Fidelity and Guaranty Co. as surety.

## Home for Summer.

Former Governor and Mrs. R. E. Sloan, with their daughters, the Misses Eleanor and Mary Sloan, are at their home on North Mt. Vernon street for the summer, arriving from Phoenix a few days ago.

## Mining Man Returns.

A. C. Nichols, heavily interested in mining in this locality, and especially with the Yavapai Metals holdings, near Humboldt, has returned from San Diego, to remain indefinitely, and is at the St. Michael.

## Visiting Relatives.

Mrs. C. E. Rogers, formerly a resident of this city, has arrived from Vulture, to remain indefinitely visiting with her mother, Mrs. J. Blount and other relatives and friends. Mr. Rogers is the carpenter foreman of the Vulture Mines company.

## Failed to Provide.

Thomas Rose, colored, was arrested yesterday and placed in the county jail with a felony charge lodged against him by his wife, who stated that the father had failed to provide for his three children. Rose will have his examination later before Judge McLane.

## Comes to Reside.

Mrs. R. A. Roberts of Wickensburg accompanied by her daughter, Miss Nellie Roberts, arrived yesterday and both will make their future home in the city with Lee Roberts, son of the former. The change in residence is due to the death recently of the husband of Mrs. Roberts.

## Business and Pleasure.

R. A. McGillan, assistant Secre-

tary of the State, was among the visitors from the capital city during the Frontier Day doings and was given a cordial welcome from many friends. He had been looking after his mining interests in the Placerita section, and combined business with pleasure on his brief vacation from official duties.

## Suddenly Stricken.

After being confined to his home for the past four days, from a sudden attack of illness, Ed. Shumate has resumed his business at the Owl Drug and Candy Co. His affliction was due to a nervous shock, incidental to visiting the refrigerator room in the basement, and the change in temperature from the upper floor of many degrees.

## Verde Visitors.

Mr. and Mrs. Granville Fain and Mr. and Mrs. Arthur Heath, of Camp Verde, are in the city on a business and pleasure trip. Messrs. Fain and Heath are closing up the deal for the sale of their large cattle holdings at the LaTourrette ranches on the East Verde river, which were acquired by Geo. A. Carter and others recently.

## Resumes Development.

Dr. H. A. Hughes of Phoenix left yesterday for his mining camp near Poland, and was accompanied by J. E. Pawley and R. H. Coates, miners, who will establish a camp and resume development. Mr. Pawley performed considerable work this Spring and from the good showing made Dr. Hughes has concluded to operate permanently and to a greater depth.

## Cattle Transaction.

J. P. W. Stewart has sold to O. A. Lange all his cattle ranging in the Prescott National Forest reserve, certain enclosed lands on Slate creek, and a mining location in the Hassayampa district, for a nominal consideration, according to a deed filed for record yesterday. The buyer is a practical rangeman and in recent years has been a frequent buyer and seller of livestock.

## Adds Two More Wheels.

Another disciple of the speed wave developed on Saturday when J. A. Caffes got aboard of a new Overland flyer, and stated that the "bug" wheel was to go into the "has-been" column. This purchase is inferred by the many friends of the local banker as very significant of his future intentions to have a seat that will accommodate more than himself as he glides along on the future roadway through life.

## JOHN LINDELL IS ACCIDENTALLY SHOT.

(From Friday's Daily)

John Lindell, proprietor of the Palace Hotel, was accidentally shot last night in the right hand while attempting to prevent J. H. Stephens, the well-known cattleman from shooting Al Stringfield.

Stephens and Stringfield had quarreled while drinking at the bar, and the former was knocked down by a blow from the latter, it is said. After washing the wound on his face, he returned to the bar and the men again became involved in a wordy altercation. Stephens suddenly whipped out a double-action revolver of the bull-dog type, and leveled it at Stringfield. Lindell and Clarence Stewart who were bystanders quickly sprung forward and threw down Stephens arm just as two shots were fired. One of them entered the palm of Lindell's hand and the other proved harmless.

Deputy Sheriff Joe Young appeared on the scene and took Stephens into custody, but later he was released upon bail consisting of a check for \$2000 endorsed by Barney Smith and J. W. Stewart.

Lindell's hand was dressed by a physician and it is believed that the wound is not serious.

## ENORMOUS SUMS PAID OUT FOR VAUDEVILLE

NEW YORK, July 5.—Tow great vaudeville class of entertainment in this city has become a strikingly illustrated by the latest report of the City Bureau of Licenses, which shows that during the year ending May 1 commissions aggregating \$500,000 were paid to employment agents by vaudeville performers.

The report also indicates why there continues to be a scarcity of household servants and incidentally brings out the fact that the exportation of cattle on the hoof has entirely stopped so far as the port of New York is concerned. Part of the report deals with the conditions in theatrical employment agencies. It sets forth that the commissioner's office approved 112,900 contracts between managers and performers in twelve months. Vaudeville performers have paid \$500,000 in commissions to agencies for getting their employment as well as paying their own manager agents. The average income of vaudeville performers is \$2400 a year, but as many of the "headliners" get very large salaries the income of most of the performers is much below this figure. Moving pictures have seriously hurt the dramatic theatres.