

The Heavens in July

By Prof. Eric Doolittle, of the University of Pennsylvania.

Of the University of Pennsylvania. The bright planets which have been with us for so many months have one left the evening sky until now—Jupiter remains. Even this planet, which we saw slowly mounting higher in the heavens on each successive evening until last March and then as slowly declining, has now reached a position low down in the northwest, and early next month will leave the evening sky not to appear again until December.

The very brilliant Venus, which throughout June was the most striking

but with a small glass almost every part of it reveals interesting and beautiful details. Through this part of the sky beautiful star clusters are very numerous. Of these the ones at A, B, C and D, Figs. 1 and 2, are visible to the naked eye as bright spots in the Milky Way, while in the telescope they each appear as a great swarm of suns packed closely together, the whole background appearing as if covered with star dust. The arrangement of this multitude of suns into great streams in some places, their massing into clouds and com-



Fig. 1. The Constellations at 9 p. m. July 1st.

ing object in the heavens, has been running rapidly westward until now it is almost in a direct line between us and the sun. It passes to the east of the sun and becomes a morning star on July 5th. During the past few weeks its change in form as its silvery crescent grew rapidly narrower and finally disappeared altogether was a most beautiful and interesting sight in a small telescope. The observer who can study the sky during the early morning hours will now see the planet emerge from the sun's rays and run rapidly upward in the east. It will reach its greatest brilliancy on August 11th, when it will be very nearly as bright as it was on May 28th, and as it mounts higher up in the morning sky its change of form may be observed exactly as when it sank in the west. The change will, however, occur in the inverse order. The very narrow, silvery, crescent will continually widen, its form becoming exactly that of a half circle on September 14th.

THE PLANET URANUS.

For a few months, therefore, there will be no bright planet visible in the early evening. Our next visitor will be the beautiful Saturn, but this will not enter the evening sky until September. On its return its rings will be seen to be much more opened out than when it disappeared in February, so that, in a telescope, it will be a most interesting object.

In the absence of brighter planets the possessor of a small telescope may search for the faint Uranus, which is in the constellation Sagittarius not far from the bright star K. Figs. 1 and 2. All the stars of this region are shown in the small map of Fig. 3, so that with the help of this and Fig.

2, the observer can find the planet. It is a most interesting object, and its position is shown in the small map of Fig. 3, so that with the help of this and Fig. 2, the observer can find the planet.

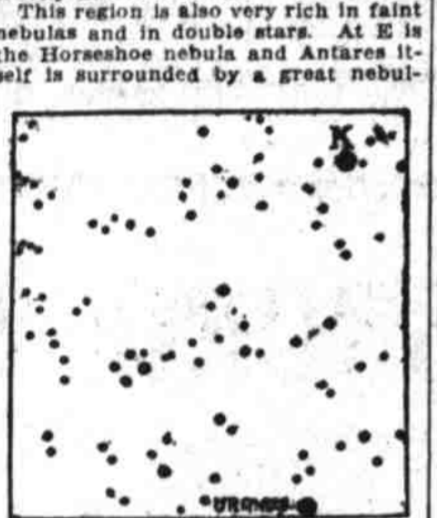


Fig. 3. The Square About the Bright Star K. Fig. 2 Enlarged to Show the Position of Uranus.

ous cloud of such inconceivable extent that light must require hundreds of years to pass through it. The stars at F, G and H are interesting naked eye doubles; the last shows a striking contrast in color, the larger star of the pair being golden and the smaller blue.

Above Sagittarius is the Eagle,



Fig. 2. The Region From Sagittarius to Aquila.

If the observer should be able to find this little-known world without difficulty. Uranus appears with a dull greenish hue. It is said to be visible to the naked eye, but it is probable that in its present position, surrounded by the multitude of stars in the Milky Way, it cannot be detected without a telescope. We know that it is a great world, thirty thousand miles in diameter, and that as with Jupiter and Saturn, it probably has a ring of ice about it. It is still very hot and probably in a peculiar condition; it is so expanded by its heat that it is only slightly heavier than water. It is crossed by faint bands just as Jupiter is, and is attended by four little moons, each but a few hundred miles in diameter, and the innermost of which revolves about the planet in only two and a half days, but all of these details are only visible in the very largest telescope.

THE STARS OF THE MILKY WAY.

After finding Uranus, the observer will be well repaid if he examines this whole region of the sky from Sagittarius to Aquila. Even without a telescope the peculiar brightness of this part of the Milky Way and its wonderfully intricate, knotted, or cloudlike structure is most striking.

whose brightest star Altair is the standard first magnitude star of the heavens, and above this is Cygnus, the beautiful Northern Cross, whose earliest designation was probably the fabled Roc of ancient mythology. The region of the sky between Aquila, Lyra and Cygnus contains so many red stars that it is sometimes called the Red Region of Cygnus. The star at L is probably the most beautiful double star in the heavens.

Above Cygnus stands Cepheus with one foot on the Pole and the other on the Solarial circle, while between these groups, the faint Lizard stretches across the Milky Way. In this region the star N is an interesting variable and perhaps the reddest star visible to the naked eye. The star at R is a pretty double in a small telescope.

"As we follow along the Milky Way we are strongly reminded of the poetical view which the Indians held of it, that it was the aspen path crowded with the souls of their heroes who are journeying to the hereafter, the brighter stars along the road marking their camp-fires. Oddly enough, the ancient Hindus, it was also a road leading to the throne in Elysium. The Patagonians, however, today describe it merely as the road on which their dead friends are hunting ostriches.

SUNDAY SCHOOL CONVENTION.

Interesting Programme Arranged For July 26 at Wentworth, Several Prominent Workers Taking Part. Special to The Observer.

Reidsville, June 27.—The executive committee of the Rockingham County Sunday School Association has arranged a very interesting programme for the convention to be held in Wentworth July 26. It has been so fortunate as to secure several of the officers of the State association to take part in the programme. Mrs. Francis E. Hubbard, the State home department secretary, will conduct a round table on the primary and junior work. Mr. J. B. Robertson, formerly of Reidsville, but recently engaged by the State association as field secretary, will be present and deliver an address on the "Importance of Organized Sunday School Work."

Prof. F. S. Blair who has been canvassing the county, and who reports growing interest in the Sunday school and organized work of the county, will conduct a round table on the duty of the county and township officers.

In addition to these prominent speakers from the outside, there will be several addresses, notable among which is a discussion of the "Relation of the Pastor to the Sunday School," by Rev. William Hedley, of Reidsville, and an address on "Rockingham's Need of More and Better Organized Schools," by A. D. Ivis, Esq., of Leaksville.

Every Sunday school worker in the county should be present at the convention.

The committee has arranged for the hour between 1 and 2 o'clock to be spent in enjoying a picnic dinner, and the plan is for each one to bring a well-filled basket and have the pleasure of picnicking together, as well to enjoy the two sessions of the convention, with the various addresses and discussions of important subjects in relation to Sunday school work.

AMERICA'S GREATEST LAWYER.

Eminent and Picturesque, But Refuses to Charge High Fees.

H. N. Casson, in Broadway Magazine.

The problem of the railways to-day, what they shall do to placate courts and Legislatures and how, is one demanding the most extraordinary ability. The men already before the public who have the equipment for this task are few in number.

There is one great lawyer who may prove to be the Moses that shall lead the railroads out of the wilderness of hostile legislation, and who is so picturesque that his name deserves to be the last word in the discussion of the subject—John G. Johnson, of Philadelphia.

There are ninety-five Johnsons in "Who's Who," but not this Johnson. There are no real-life stories of his life battles in the Sunday papers. He has never been photographed. He has never been interviewed. He has practiced law for forty-five years and been a leader of the American bar for twenty years; and yet outside of his clients and a small group of personal friends, John G. Johnson is comparatively unknown.

It was Johnson who argued the first of the anti-trust cases before the United States Supreme Court, and won it, getting the sugar barons out of trouble. When the 3-cent-a-mile case was argued in Pennsylvania last year, it was Johnson who had it declared unconstitutional and thrown on the scrap heap. And not for a quarter of a century or more has there been a great lawsuit in Philadelphia in which Johnson was not one of the stars or the center.

Other lawyers have no fault to find with Johnson, except that he refuses to charge high fees. In this regard, he is incurable. The biggest fee to his credit is said to have been one of \$10,000 which he received from the sugar trust, in the famous Chapman case, ten years ago. But usually his fees are regarded as mere pittance by his fellow-lawyers. I was told of one instance in which Johnson had saved a New York street car company from losing a franchise. He sent a bill for \$5,000. It promptly mailed him a check for \$25,000. The next day it received a check from Johnson for \$20,000, with this short explanation—"No gifts."

BRITT NAMED FOR SENATE.

Buncombe Republicans Nominate County and Legislative Ticket, Convention Being Well Attended. Special to The Observer.

Asheville, June 27.—The Republicans of Buncombe county met here to-day and nominated a full county and legislative ticket. The convention was well attended and enthusiastic.

James J. Britt was nominated for the State Senate and Thomas E. Rollins and Dr. L. A. Wilson for the House. Mr. Britt has been liberally mentioned in connection with the Republican nomination for Governor and in the event he is elected the county executive committee is empowered to fill the vacancy.

News From the City of High Point.

Special to The Observer.

High Point, June 27.—A large crowd from this city attended the orphan day exercises at the Thomasville Baptist Orphanage yesterday.

A new council of the Jr. O. U. A. M. has been instituted at Caraway, District Deputy J. W. Sechrest doing the work. The new council consists of 46 charter members and the officers are as follows: Councilor, J. B. Coltrane; vice councilor, E. C. Blair; junior past councilor, R. S. M. Blair; financial secretary, C. W. Redding; recording secretary, J. E. Davis; assistant recording secretary, J. R. Winslow; conductor, Eugene Marsh; warden, T. J. Osborne; inside sentinel, S. H. Davis; outside sentinel, W. S. Steed; chairman, W. T. Ledwell; treasurer, Dr. J. R. Fuller; trustees, T. O. Marsh, R. L. Seurlock and D. G. Davis.

The Snubbing of Root.

Philadelphia Record.

Secretary Root has been almost entirely snuffed out. Buckingham served Richard III faithfully up to a certain point. When he reached that point he set what the slang of the street calls "cold feet," and at once Richard called for his head. The President assured the country a few years ago that Mr. Root was not only the greatest man in our government, but he was the greatest man who had appeared in any government in the world during the last twenty or thirty years. Yet business that belongs to the Department of State is being transacted by the Secretary of War. When Panama was disturbed it is Taft, and not Root, who goes there to settle matters. Taft and not Root, will go to Quebec as the personal representative of the President to greet the Prince of Wales. No man can serve Theodore Roosevelt if he has any mental reservations or conscientious scruples or constitutional qualms.

SIX DECISIONS BY COURT.

Supreme Tribunal of South Carolina Gives Its Opinion in Half-Dozen Criminal Cases, One Being of Special Interest—Difference as to Demurrage and Storage Charges.

Observer Bureau, 300 Skyscraper Building, Columbia, S. C., June 27.

Six decisions, all in criminal cases, were filed today in the Supreme Court, among them one from Greenwood, a "dry" county, which is of special interest regarding a feature of the new dispensary law.

Henry Arnold was convicted of transporting liquor for unlawful purposes. His attorneys appealed on the ground, among others, that it was not shown that he transported to a point outside the county to a point inside, that the section in question only forbade transporting from a "wet" to a "dry" county. The court did not agree with this view, holding that transporting from one portion of a "dry" county to another is unlawful.

Teague Nelson, convicted of manslaughter at Laurens, appealed on the ground that the sheriff assisted in drawing the grand and petit juries for the term. The Supreme Court affirmed the conviction.

Dennis Washington, convicted of maliciously obstructing a neighborhood road, was affirmed, as was the conviction of Thomas J. and W. S. Yoe, required to pay a fine of \$125 each for gambling at Greenwood.

Two cases of conviction for receiving stolen goods go back for new trials, showing once again how difficult it is to punish for this offense. J. W. and J. F. Kountree, of Barwell, are the defendants in one case and Peter Daniels, a Georgetown man accused of receiving two stolen cows, is the defendant in the other.

These is a wide difference between the rule of the railroad commission and the demands of the Southeastern Car Service Association on storage and demurrage charges on inter-State shipments, the charges under the latter amounting to about double that under the commission's rules, and nearly every receiver of freight throughout the state is being affected by the commission's inability so far to enforce its rules on account of the apparent ambiguity of the inter-State commission's interpretation of the situation.

The State commission has been in correspondence with the Federal commission a month or so on the subject. Several weeks ago the Carolina commission received a letter from Mr. Clements, the Georgia member of the inter-State commission, in which he said the inter-state commission did not consider that it had jurisdiction in the matter of charges. To-day, however, it received a letter from him, apparently unconsciously reversing himself, saying that the commission considered itself to hold exclusive jurisdiction. He pointed out, however, that the tariffs as published must contain all charges for whatever cause, and the South Carolina commission thinks the roads may be forced to obey its rules under this provision of the Federal law, storage and demurrage charges being published separately and not along with the tariffs.

The South Carolina commission has written another letter to Mr. Clements asking him to explain the apparent conflict between his two letters.

Two Out of Three From Spencer, Special to The Observer.

High Point, June 27.—The Blues defeated Spencer here to-day by a score of 4 to 0, taking two out of three games. The pitching of Stevens for High Point was superb.

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