DESERET EVENING NEWS: SATURDAY, MARCH 9, 1901.



Astronomers Have a Regular Code Nova Persei, Dr. Anderson's Second Discovery-A Vassar Girl Just

Misses the Credit of the Recent Find.

Special Correspondence.

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western continent the apearance of the "new" star in the constellation Perseus, and immediately transmitted to the other observatories of the continent. Translated by the code used at the observatory it reads as follows: "A new star has been discovered by Anderson, at Edinburgh; in the constellation Perseus. The position is R. A. 3 h., 24 m., 24sec, and Dec. x 43o34. Its magnitude on February 21 was 2.7. Bluish white." This translation, sent out more slowly in the form of bulletins, then carried the tidings of the discovery to all other persons in this country interested in astronomy.

Such news comes first to the Harvard observatory as the distributing center of astronomical intelligence on this side of the water. It is here that all such intelligence is reported from the various stations on the western continent, such news being then transmitted to the Klel observatory in North Germany, which holds the same relation to the aswhich holds the same relation to the as-tronomic interests of the old world. In like fashion the Kiel observatory re-ports to Cambridge, and the latest as-tronomic news of Europe becomes al-most on the instant familiar to all American actionements

American astronomers. The discovery of a new star is an event of great importance to the large army of astronomers, professional and amateur, constantly scanning the heavens. In the last fourteen years only eight new stars have been dis-covered, and the receipt of such a mes-rage as the above is, therefore, suf-ficiently infrequent to stir observatories

ficiently infrequent to stir observatories to unusual and pleasant activity. Modern astrenomy, with its indefatig-able photographic, photometric and visual instruments, works continuously, and the finding of a new star is a break in the night and day routine of ordinary observation somewhat comparable to the finding of an occasional nugget in a community of conscientious gold-seek community of conscientious gold-seekers. In the Harvard observatory, for ers. In the instructed observatory, his example, the instructed were turned immediately upon constellation Perseus although the right was far from being iteal for astronomic obser-vation; the star was only occasionally visible through the clouds and falling snow made it twice necessary to cover

and protect the instruments. At the present time the discovery of new stars is more often made by the study of photographic plates of the heavens than by visual examination of the sky itself, such plates being taken constantly, and any new star thus registered immediately upon its appear-ance. The result is not always as im-mediate as that of the more personal scrutiny but its advantage lies in the fact that no star can appear and disap-pear, as might otherwise sometimes be ving proof of it the case, presence; in 1891, after the presence; in 1891, after the discovery of Nova Aurigae by the same Dr. Ander-son who has now, in 1902, found Nova Persei, an examination of the photo-graphic plates at the Harvard Obser-vatory proved that the new star had been in existence for six weeks before the eye of the astronomer observed it. Dr. T. D. Anderson, the discoverer, despite the fact that he has already added a star in the constellation Aur-ige, is not a professional astronomer; his real profession is the ministry. As is the case with many another in Great Britain, astronomy is simply a personal pleasure amounting practically to an avocation; it is interesting to note that in his first discovery he so doubted the possibility of having been the first as-tronomer to notice Nova Aurige that he announced the fact to the observatories announced the fact to the observatories on a modest and anonymous post-card, concealing his own identity until the value of his "find" made it impossible longer to conceal it. Nevertheless, al-though the photographic plates would eventually have told the same story, the value of his present discovery was none the less important for it served immediately to focus on that one pornone the less important for it served immediately to focus on that one por-tion of the heavens the entire astrono-mical observation of the earth. When a new star has been discovered the first questions naturally concern location in the firmament and its com-parative brightness. Therefore, while the first technicalities of the science are familiar to many readers, it may be interesting to others to follow roughly interesting to others to follow roughly the process upon which Dr. Anderson, having discovered Nova Persei, based his figures, "R. A. 3h. 24m. 24s: and Dec. +43° 34'." The exact situation may be seen most readily by examination of an ordinary globe, bearing in mind that to Dr. Anderson the heavens are the inside surface of such a globe, enlarged enormously, and the earth from which he makes his observations an infinitesi-maily smaller globe exactly in the centhat a great plane passing through both ter of it. Granting this, it will be seen globes like an enormous sheet of pa-per and dividing the earth at the equa-tor into two hemispheres, would make, on the surface of the other globe, a great circle comparable, on an end to the equator of the earth and called, in fact, the celestial equator; that other planes cutting the earth at the poles would make upon the outer globe other great circles comparable to the earth's own circles of longitude: and that the sun as seen from the earth would, as the earth makes its yearly revolution,

mous circle (called the ecliptic) cutting Cambridge, March 4.—"Unprepared each of the other lines at two points. Here then we have a great surface-the inner lining of an enormous globe-subdivided by regularly drawn lines and

azucana in Perseus unsettled başcar bluish white." The above is the cablegram received at the Astronomical observatory of Harvard college in Cambridge, Febru-ary 22, 1901, officially announcing to the western continent the apearance of the sun's celliptic-a point subject to minor variations which his apparatus allowed him to take into exact considera-tion, and measured in hours, minutes and seconds because such are the nat-ural divisions of the greater circum-ference, and so used in preference to the degrees measuring our own equa-tor. Going castward he found his star in right ascension (R. A.), 3h. 24m, 24s. This, it will be seen, fixes it somewhere in the great circle corresponding to our own circle of longitude and passing through what we have called the great-er equatorial line at this point. Going north along this greater circle of longnorth along this greater cherge of long-itude, and measuring by degrees, he finds the declination (Dec.) of the new star, this in the case of Nova Persei being 43° 34'. This may be verified by other methods, and the new star is thus scientifically settled in its proper place in the firmament.

en a new name, although later it may i derson en the morning of the 21st.

the date of its discovery, are sufficient for all scientific purposes, and it is thus duly catalogued for further study thus duly catalogue for further study. It would be difficult to say at present how far Nova Persei is from the earth, exactly how it has been formed, or how long it is likely to remain a bright oblong it is likely to remain a bright object; but an examination of the photo-graphic plates at the Harvard Obser-vatory shows that it was not visible two days previous to its discovry, and that in those forty-eight hours it must have increased some 10,000 times in have increased some 10,000 times in brilliancy. New stars do not retain their maximum brightness; a new star may, therefore, eventually fade from a position of first or second even to the al-most unrecognizable dimness of a fit-teenth or sixteenth magnitude.

Of the less striking discoveries made by comparison of photographic plates, Mrs. M. Fleming, curator of astronom-ical photographs at the Harvard Obical photographs at the Harvard Ob-servatory, has six to her credit; nat-urally enough, perhaps, for the Har-vard Observatory is the great world-center of photographic charts covering the entire sky and it is her duty to examine the plates sent to headquarters from its various stations. Of the eight stars already mentioned, she deserves the credit of having found all but the two discovered by Dr. Anderson. It is a fact also that Nova Persei

It is a fact also that Nova Persei was seen in this country almost at the same moment that it was discovered at Edipburgh This does not, however, de-tract from the credit of Dr. Anderson, for his possible American rival, a young woman of Vassar College, not only failed to realize the importance of her discovery but made it in reality one hour later-the difference in time between the two places accounting for this hour in his favor, even though nominally the star was seen in Pough. n the firmament. A new star is never immediately giv.

PUBLIC INDIGNATION GROWS.

Rear Admiral Sampson and Gunner Charles Morgan.



Despite the fact that Gunner Charles Morgan, the innocent cause of all the trouble, strenuously defends the good name of Rear Admiral William T. Sampson, public indignation against the latter is undoubtedly growing. The unfortunate naval commander has started a hornet's nest by stating regarding the application of Morgan for promotion, that enlisted seamen are socially inqualified for line no tions. The whole country has been stirred by this de-



There has been a celebration in the !

work the big snake lay perfectly quiet,

seeming to appreciate that without their assistance her career would soon

have been terminated. When the job was finished the huge

colls shone and glittered, throwing back an iridescence to the light which demonstrated that Fatima was cured. Once more the keepers began to coax

her with all sorts of furred and feath-ered delicacles, but without success. "Ine months had elapsed since the snake's capture, and she had not tast-

e food. The curator of the reptile de-partment decided that she had fasted

long enough. Energatic measures were

in order. Six rabbits were killed and fastened, one to the other, with brown

taking. "Out of the cage," was the order,

turned to fight.

mains.

time.

fowl.

a strong antiseptic wash daily, and jabbed at the python. As she opened her mouth in indigna-tion at the process, the cotton was thrust between her jaws. The latter closed enddenly encounter the cotton reptile house of the Zoological Park in honor of the python Fatima.

For nearly twenty months this scaly closed suddenly, squeezing the cotton and naturally dis ributing the solution about the interior of her mouth. Ten monster has been kept alive by the operation of pushing rabbits, pigeons and chickens down her throat with a long days of this treatment brought about a cure. pole The operation of removing the snake's old skin took place a few days after. For over eight hours Fatima's keepers worked steadily removing her old clothes. And while they were at

During all this time she steadily refused to eat, and would have starved to death had it not been for the compulsory feeding. But Fatima has suddenly acquired an appetite of tremendous proportions. Her first voluntary dinner in captivity consisted of about sixteen pounds of chickens.

From the time of her arrival on the steamer Afridi, from Singapore, Fati-ma has evinced the most eccentric char-acteristics. When the Zoological Park officials boarded the vessel to inspect the live stock she had brought in from the East they discovered the big snake

packed in a large box, which was cov-ered with coarse wire grating, She introduced herself by a savage lunge at the latter, in which she caught her teeth. The park officials decided twine. A bamboo pole was inserted in the skill of the first rabbit, and Keep-ers Snyder and Dahl led a squad of many the python's cage. Snyder grabbed the snake by the neck. Dahl assisted him in this dangerous underthat Fatima was a fine snake-inciden-tally one of the largest that ever came to this country-and purchased her on the spot to grace one of the big glassfronted cages in the reptile house, then building. Fatima arrived at the Zoological park

a year ago last September. Pending the completion of the reptile house she was placed in a big cage in the stable, where numerous animals awaited permanent

quarters, The cage was provided with a zinc tank, under which an oil stove burned steadily, furnishing the reptile a tepid bath to be used at her will. Here the monster remained for many weeks.

The most tempting food was offered her, but she steadily refused to eat. Poultry, rabits—in fact, everything cal-culated to tickle the reptilian palate, was placed before the python at frequent intervals. Time and time again assortments of game were taken from the cage and fed to the alligators. Finally the park employes became so busy preparing for the opening of the that the python necessarily received less care. In a short time she would be placed in

her cage in the reptile house, where the argued, having been without food for only about five months since the time of her capture, which is not a serious inconvenience for a snake, she must get along for a couple of weeks without any attention any attention.

The stove was kept burning under her bathing tank, and Fatima, not finding any chance to fight her keepers, as had been the case when they opened the cage door to throw in the food which she refused, piled her brown and yellow folds one upon the other in a dark cor-ner and went to sleep.

Cold weather was approaching. Al-ready the wind from the horthwest made the nights too cold for reptilian blood, so a large stove was set up in the stable. An exceptionally cold night arrived, and during its midst a wolf escaped. All the watchmen started in pursuit and followed the animal for a couple of hours. They came back un-successful and found the fire had gone

MRS. ROOSEVELT READY TO ENTERTAIN. Will Take Her Place as a Leader of Washington Society and Do it Justice.



While Theodore Roosevelt is performing to the best of his ability the perhaps not over arduous duties of a Vice President. Mrs. Roosevelt for her part will proceed to do her duty as a Vice President's with Although there is no government salary connected with the latter office, the dutes are by no means light. Here is a picture of Vice President Roosevelt's chaming with



claration.

BOTHA'S CAPTURE DOES NOT END WAR.

British War Office Convinced That There is Still Much Fighting to Be Done.



While there is much elation in British war office circles over the recent success of British arms, it is not believed there that the capture of General Botha means the end of the Boer war. It is believed that Kitchener will find plenty of work in contending against the other Boer forces operating in vicintrace on the outer sphere another enor- | ities far removed from the Boer commander-in-chief.

damage was done

store it.

men hastily made up the fire, but the When the park officials and keepers arrived in the morning they found the warm-blooded animals still shivering

York Herald,

warm-biooded animals still snivering but alive. But some of the snakes had died from congestion of the lungs. Among them was Fatima's mate, a communication snake than she, but nevertheless a magnificent reptile, weighing nearly two hundred pounds, But most discouraging of all was the chago Tribune.

But most discouraging of an was the condition of the park's star reptile, 'Fatima lay on one side, with her mouth wide open, and all the hostile glitter gone from her yellow eyes. The twenty-two foot body was collapsed and without a movement but certain twenty-two foot body was collapsed and without a movement, but certain indications showed the reptile to be alive. Congestion of the lungs had swept the vitality from the powerful brute, and, for a while, it was doubtful News

if the most energetic measures could re-Fatima was dragged into her tank, her head was supported on a big block, and the oil stove was made to do double and the off stove was made to do double service. As the water grew warmer the body quivered here and there. For a week the big snake lay half dead in her tank; then she began slowly to recover. Two weeks after the episode she was so weak that when four men dragged her from the case to be clear in the

Chicago Tribune: "I'm rather glad her from the cage to be placed in the reptile house, where the temperature was more even, her feeble struggles caused them no inconvenience. Here Here ceive me. 'Brazen, m'dear! No sush thing. It's

caused them no inconvenience. Here the reptile was placed in another tem-porary cage, and received constant at-tention. One week later she moved again. This time it was into the com-modious, glass-framed cage she now occupies. From the time of her instal-lation the snake began to improve. For it weeks the nython's because mist, "is what supports us." "Well, I don't know," said the sea captain, thoughtfully, "the ocean sup-

For six weeks the python's keepers worked steadily to bring back her health. Then it was found that she had resumed the practice of making cheerful lunges of six feet or more in their direction. This was regarded as a good sign but the ranking man and their direction. This was regarded as a good sign, but the reptile was not yet out of danger. Her mouth was badly "cankered," and must be cured. Moreover, her body was covered with an old, dry skin, which she had neg-lected to shed, and the same must be

removed. It is considered impossible to cure : cankered mouth in big snakes, but it was done in the case of Fatima. A was done in the case of Fatima. A ball of cotton was fastened on the end of a bamboo pole. This was soaked in

out. The temperature in the stable had dropped to within a few degrees of the freezing point, and the monkeys were hugging each other in a shivering em-brace. All the snakes were motionless. Even the big rattlesnake, which always shook his tail vigorously as people en-tered the stable, was silent. The watch-men hastily made up the fire, but the

HUMOROUS.

such a reputation as a liar?" Geraldine: "I suppose he told Sap-phira she was the only girl he had ever loved."—Harper's Bazar. "Johnny, dear, did you try to mind

the Golden Rule in your dealings with your playmates at school today?" "Yes'm, till we had recess. You can't use it in football, you know. It'd kill the game deader'n a door nail."-Chi-

White: "I understand young Green lost all the money his father left him on the races, and he's now looking for a job. He won't have so soft a thing as he has had." Brown: "Oh, I don't know; he'll have a soft thing as long as he doesn't lose his head."-Chicago

Eastern Tourist: "I am glad you are satisfied with the \$100 I paid you for services, and as I have taken a fancy to your two revolvers I'll give you \$25 for them." Western Guide: "Thankee, friend; tut if after you got to have your \$125 back, what would I be? No offense, pard, but I guess I'll keep me guns."-Judge.

now," soliloquized the illustrious ad-miral, "that I didn't get that nomination for President. I wouldn't have had a shred of reputation left by this time." Cleveland Plain Dealer: "George Winglebat, your brazen manner cannot de-

tinny, m'dear, tinny. Been blowin' big tin 'lection horn. Thass all." "The soil," said the political econo-

ports me about eleven months in the year."



NEW BILLION DOLLAR TRUST TERRIFIES SCOTCH IRONMASTERS. They Admit that Institution of Mammoth Concern is a Serious Menace to Their Business.



Scotch iron and steel manufacturers are watching with great interest and greater apprehension the consolidation of the steel interests in the United States. To them, as they admit, it probably means the closing of the door to the export of their products across the Atlantic, and the raiding of the British markets by American products. This of course would mean the destroying of the iron and steel industries of Great Britain. Here are pictures of the men prominent in the deal,

