

# IMPACT THEORIES PLANET CRATERS ON MOON

### Professor See Makes Inter- esting Report on Lunar Probabilities

### GEOLOGISTS NOW ACCEPT NEW IDEA

### Theories Once Held Ridiculous Date Back Many Years in Science

SAN FRANCISCO, November 27.—In concluding and completing his work on the origin of the planets and the solar system, earlier theories of which were made public in June and of the present theory of Professor T. J. See, U. S. N., in charge of the Naval Observatory, Mare Island, gave tonight the explanation of the origin of the moon, and then proposed to apply the new theory to the origin of the planets, which, he said, was the last difficulty in the theory of the "Capture Theory," recently advanced by him as supplanting the nebular hypothesis of Laplace.

Professor See announced that the theories were undoubtedly due to the smaller satellites against the larger planet, and not to the larger planet, as has been generally held since the time of Galileo. The fact that the lunar craters might be as old as 1873, and had been mentioned as a curiosity by Newton in 1687; while it had been more recently developed by Dr. G. K. Gilbert, of the United States Geological Survey in 1892. But the impact theory had been accepted by geologists or astronomers, and was not mentioned in recent work on astronomy, so great was the force of traditional opinion in favor of the old volcanic theory.

Professor See, however, pointed out that the volcanic theory, he claims, were mainly negative against the volcanic theory, and remarked that there would be no difficulty in seeing the truth of the impact theory than formerly, since he had recently proved that the craters of the earth thrown into rotation, but a planet captured in space. The new theory of the origin of the moon, he said, had been fully received by the scientists, but it would be of still greater value in bringing to light other theories such as those announced by Laplace.

See said the typical crater of the moon is a very large circular depression with steep walls inside and sloping outside, and a small peak in the center, and a ring of hills below the rim of the lunar surface. If the impact theory is correct, it is impossible to account for depressions where the craters stand; but if they are directed from within the center of the circular trough about the center. Then, too, the craters lie over one another, and they are nothing but satellite craters. About the newer craters, as Copernicus, Tycho, Aristarchus, and bright rays radiating in all directions show that at the time of impact the force of the impact had broken up from these centers into thousands of smaller craters, and that the temperature raised by the impact was of the order of thousands of degrees or higher, and that the rays from the craters were the scattering of highly heated material.

The impact theory is in target practice, and not in target practice, and the craters of the military service are of the same nature and spreading in all directions, and the spreading of the craters was such as to have a center of the cratered shell, and at the same time a rim is formed about the center. Like that seen about the craters of the moon. But the shot fired in target practice compared to that of the craters where satellites from 100 to 1000 miles in diameter had been against the lunar surface, and the impact of over a mile a second produced blazing conflagrations covering the whole of the moon.

Professor See pointed out that many craters are largely covered with material of a kind of metallic or siliceous nature, which had fallen from such craters. There is no air about the moon, which it can remain long after the impact, and he said that the moon had been captured by the sun, and that the impact of the sun on the lunar mountains had been due to impact of satellites on the surface; but thought that collisions had occurred between the moon and the sun, and that the moon was captured by the sun, and that the impact of the sun on the lunar mountains had been due to impact of satellites on the surface.

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worlds are formed," declared Professor See.

In a second paper presented tonight, Dr. See explained the obliquities of the planets by the impact of satellites against their surfaces. He said he had discovered the cause of the obliquities from the case of Jupiter, whose axis is nearly perpendicular to the plane of his orbit. At one time, Jupiter's obliquity was larger than that of the earth, or even Saturn, 28 degrees; but as the greatest of the planets had gathered in satellites moving about the sun in planes having the average position of the Jovian orbit, the equator had been tilted down almost in coincidence with it. In this way, had arisen the small obliquity of Jupiter, and a similar influence had acted upon the other planets. Saturn's obliquity would practically disappear, if that planet could gather in enough satellites to make the mass as large as that of Jupiter. The obliquity of our earth, on which the seasons depend, is smaller than that of Mars; and Professor See said that the obliquity of Venus probably was smaller yet, not exceeding twenty degrees. He ascribed the high obliquity of the systems of Uranus and Neptune to the original positions of those planets, their equators never having been greatly tilted over by the capture of satellites.

The small obliquity of Jupiter gave the true clue to the cause of work, and the face of the moon showed how all planets had been tilted by falling satellites during the immeasurable ages involved in the development of our solar system, which was originally of much greater dimensions than at present. The solar system was formed from a spiral nebula, the outer border of which originally extended to something like a thousand times the distance of the earth from the sun. Most of the other nebulae of the heavens are of immense extent, and Professor See said he had proved that the nebula which formed our solar system was no exception to the general rule.

In conclusion, Dr. See announced that he had now proved that the planets had been captured by the sun, and that their orbits had been gradually reduced in size and rounded up under the secular action of a resisting medium; that the satellites likewise had been captured by their several planets, and had had their orbits transformed in the same manner; finally that the moon had been captured by the earth, and the craters on its surface had been formed by the impact of satellites, when the moon revolved among the asteroids or further out. The time involved in the formation of the solar system was to be reckoned in billions of years, and something like four hundred million years may have elapsed since the moon was captured by the earth. In conclusion, he said all the principal phenomena of the solar system were now fully explained in accordance with known mechanical laws and astronomers had gained an unexpected light on the origin of the systems of the universe.

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# Silver Belt's Want Ads

**IMPORTANT NOTICE**—I. the future no advertisement for the Silver Belt's want department will be accepted unless the copy is accompanied by the cash. The low rate of one cent a word per issue was made on a cash basis, and in the future no deviation will be made from this rule. Cash must accompany copy for classified advertisements.

**No Advertisement Taken for Less Than 25 Cents**

**WANTED**  
WANTED—To trade Globe residence lots for diamonds. Address Box 523.  
WANTED—Miss M. Bledsoe, stenographer, room 38 Trust building, solicits legal and commercial work. Phone 2932.  
WANTED—Position by competent lady stenographer and bookkeeper. Address Box 1626, city.  
WANTED—Pupils for piano and organ instruction. Lessons reasonable. W. H. Toy, 453 North High.  
WANTED—100 shares Keith Theater stock. State lowest price. Address M. A. S., care Silver Belt.  
WANTED—Girl for general housework. Apply at 198 Oak street.

**FOR RENT—HOUSES**  
FOR RENT—Four-room house on Noftger hill. \$12.50 per month. Address L. N. Frakes, City.  
FOR RENT—Two room house, centrally located. 325 South Hill street.  
FOR RENT—Four room unfurnished house on Maple street; good location. Enquire 439 East street.  
FOR RENT—Three room house, with yard, in Noftger hill. Has pantries and closets. \$17.50 a month. Call Room 2, De Lacy House.  
FOR RENT—Four-room house. Apply at the Webster house.  
FOR RENT—Four-room house, with bath. Apply 516 East Ash.

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5-room house three blocks from courthouse. \$30.  
2-room house, Pascoe Hill, \$12.50.  
5-room house, corner Bailey and East street, \$25.00.  
4-room house, Maple and First street, \$17.50.  
Cabin for batching, School House hill, \$5.00.  
4-room house close in, \$20.00.  
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FOR RENT—Pianos. Apply Wightman's music store.

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Will trade Globe residence lots for diamonds. Address Box 523.

**FOR SALE—HOUSES**  
FOR SALE—Good three-room house, neatly furnished, 2 level lots, fruit trees, chicken house, woodshed. Centrally located. Lots suitable for warehouse. Apply Nick Milliek, Room 4, over Palace Pharmacy.

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FOR RENT—Two furnished rooms for light housekeeping. Gas connections. Apply 325 South Hill street.  
FOR RENT—Office rooms in the new Amster building corner Oak and Broad. Apply to office Globe Light & Power Co.  
FOR RENT—Furnished rooms at Burton house, 118 Haskins road. Phone 861.  
FOR RENT—One room furnished for two men, on Hill street. Enquire Mrs. Dunaway.

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LOST—Pearl brooch between L. L. Henry's residence and Clark's Pavilion. Suitable reward for return to L. L. Henry.  
LOST—Chamois bag containing diamond—a keepsake ring and coin. Name of Leone Bushnell on slip of paper in bag. Finder leave at Silver Belt and receive reward.

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