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THE SUN IS NOT TRULY HOT

By Edwin Fairfax Faulstich.

Our solar system is a tremendous sphere of energized matter, extending far beyond the orbit of the far outermost planet, with a royal zone of greatest energy, on either side of the systemic equator, in which zone, in their orbits, revolve the planets and planetoids. Within this sphere is contained, either in a state of high diffusion or of dense cohesion, all the chemical elements and composites that form the material structure of the system. Of this titanic microcosm the sun is the solar plexus.

Compared with the system itself the sun and other planets are tiny microcosms, far smaller in proportion than specks of dust floating in an arc light globe. The solar system is in a constant state of revolution upon an axis of least motion and this revolution reaches its greatest speed in the central zone in which revolves the planets.

Matter of every sort is coherent energy, the particular form of matter being determined by the velocity of the vibrations of energy and the conditions of transformation. The only difference between hydrogen, with an estimated equivalent weight of one unit, and a corresponding combining weight, and uranium, with an estimated equivalent weight of 237.8 units or of any of the 76 accepted chemical "elements" between hydrogen and neon is the difference of vibration of primal energy therein embodied and the conditions under which the initial embodiment occurred.

In other words, the chemical "elements" are not elements at all, but composites and combinations of one element, and this primary element is the basic energy of the solar system. In its last analysis this primary, elemental energy is directly traceable to omnipotence, and represents the constant exertion of the will of God that this system shall exist and have a place as a part of the universe.

Within the universe of stellar systems visible through a large telescope may be seen multiple forms of adolescent, mature and decadent systems. Some show a spiral structure, others and annular form, others globular fabric; some are single, others duplex, others multiple. In fact, every motion is evident in the structure of our galaxy. Yet whether the celestial object under observation be the wide flung and apparently chaotic nebula in Orion, the ring nebulae in Lyra and Andromeda, the wonderful spiral in Canes Venatici, apparently condensing two suns and attendant planets, or any of the astounding globular forms in Virgo, the final conclusion is forced on the observer that all these can only be the result of the application of one primal energy. This premise can be brought to a rational conclusion by deduction rather than by the scope of this article, but within the compass of the interested reader.

It may not be too strained a comparison to write that the stellar systems represent the corpuscular structure of the physical embodiment of God, and that the energy which maintains them is His spirit or soul. Of one thing we may be absolutely certain. Matter cannot energize itself. The created thing has not the functions of the Creator. It is not enough to trace matter to energy and energy to a symbol. If we want truth we must seek to the limits of our finite understanding, and the deeper our analysis goes the more certainly does it prove a creative, operative, directing Intelligence.

There is nothing in science to disprove God. Science proves God. If the chemist uses a group of symbols to represent the elements of material creation, the astronomer a set of terms to describe energy, force, motion, time and place, and the philosopher endeavors to allot to each manifestation of organic and inorganic life its apparent characteristic, it does not mean that the scientist thinks that the object or condition so described is operative inherently. He knows that there is an animating intelligence vitalizing all things, and whether the term used in ultimate description be motion, gravitation, energy, force or any other term, what is thus really characterized is some manifestation of God's will, power or spirit.

Persistence of energy and matter are only other ways of saying that

creation is eternal. If the physical persists through countless changes of form and order; if habitable worlds are but tiny molecules in the larger systemic atoms, which in turn are only composites of some vaster fabric; if matter and energy are interchangeable; if there is no absolute point of beginning and no absolute point of ending; if habitable worlds begin one cycle as gaseous condensations near the periphery of solar systems and following a spiral orbit draw closer and closer to their primary sun until they have reached a condition fitting them for human, or equal habitation and when that use is finished pursuing their spiral paths to contact with the focus of energy of that system, to be dissipated radiantly to the outer limit of that cycle—does not all this demonstrate an eternal plan? And are those who think thus less reverent than those who accept the poetic Mosaic explanation?

We say that the sun is hot. What we mean is that it is not in the sunshine. The electric light is hot, but that does not mean that the electrification which produces the light is hot. The hot light is produced by offering resistance to the energy of electrification. Heat is only a relative term. To humanity it is less than 60 degrees of variation in temperature. Heat as humanity understands it means combustion. If the sun were in a state of combustion and were made of best anthracite coal, to produce the energy we observe would reduce that coal to ashes in about 6,000 years. If the "heat" of the sun were maintained by the combustion of gases, in the same period of time it would use up a sphere of gas equal in volume to the orbit of Saturn. Because the hydrogen in the sun is in violent motion and because it looks as if it were burning we have assumed that it is, and have based all our premises on that thought.

If the sun were the hottest point of the solar system how can we re-

concile the facts that Mercury, the nearest planet to the sun, is the densest of the planets, and therefore the coldest, while Neptune, the farthest known planet, is the most diffuse, and therefore the hottest. Cold condenses and heat expands. If the sun were really hot we would be justified in expecting the conditions of the two planets to be reversed. Sun heat and sun light also are merely the effect of the resistance offered to the passage of invisible solar energy at ultimate zero temperature by the atmosphere of the earth. If Mercury had no atmosphere, which assertion I doubt, the surface of that planet would be at ultimate zero even though it be emerged in a flood of solar energy. It would have no transformer, and so would be as impervious to solar radiation as glass is to electrification.

Owing partly to certain manifestations of magnetism on the earth I believe the sun to be sustained in radiant energy by the constant direction to it, externally, of intermittent vibrations of primal energy in a single line, which impacts on the sun on its equatorial zone. The intermissions of vibrations of this line of energy are so minute that they are not measurable by any standard we know, but they are pulsating, else we could have no transformation of energy into motion, and the sun would not revolve on its axis.

I might write that the sun is a huge electric light sustained by a permanent current of energy, but that would only be a crude illustration, since electrification is only a manifestation of systemic energy, as is magnetism, or heat, or light, or motion or gravitation, or centrifugal motion. It is a focus of energy without friction, and since, without heat, its energy is maintained by convergent direction of power applied to it and then is transformed into radiant energy. Its whole physical structure is constantly changing, is based on a single, constantly changing heliocentric atom; it is not the center of the solar system, but is slightly eccentric, since

if it were the exact center it could have no axial motion, its eccentricity is probably in its own diameter, and its true center is the absolute zero of motion and temperature of this solar system, as conversely, at the periphery of the solar system is the maximum of motion and consequently the maximum of temperature.—Washington Star.

AT THE THEATERS

The Park theater alone had its "standing room only" sign out last night, and even this was not for long. It was probably to be expected, however, for the evening was unusually snitry and people slumped crowded places as much as possible. However, as a rule the entertainments were of an excellent order and all who braved the heat had a good time.

The Park Tonight.

As this may be the last week of the wonderful, muscular Croftons at the Park theater, the house should be full to see them tonight and tomorrow night. They are the greatest pair in their line ever seen here. Miss Ethel May will reappear in new songs and there will be an entire change of pictures.

At The Empire.

The Aflague sisters will reappear at the Empire theater this evening in pretty, new songs, among them being "Cupid's Telephone," "From Havana," and "Aloha Oe." A program of excellent motion pictures has been selected by Manager Oveand.

The Novelty's Best.

The new program at the Novelty took well last night and will be repeated tonight and tomorrow night.

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Oahu Railway TIME TABLE

OUTWARD.
For Waialua, Waialua, Kahuku and Way Stations—9:15 a.m., *2:50 p.m.
For Pearl City, Ewa Mill, and Way Stations—7:30 a.m., *9:15 a.m., *11:30 a.m., *2:15 p.m., *3:30 p.m., *6:15 p.m., *9:30 p.m., *11:15 p.m.
For Wahiawa and Lilehua—*10:20 a.m., *5:15 p.m., *9:30 p.m., *11:15 p.m.
INWARD
Arrive Honolulu from Kahuku, Waialua and Waialua—*8:36 a.m., *5:31 p.m.
Arrive Honolulu from Ewa Mill and Pearl City—*7:45 a.m., *2:50 p.m., *11:02 a.m., *1:40 p.m., *4:26 p.m., *5:31 p.m., *7:30 p.m.
Arrive Honolulu from Wahiawa and Lilehua—*9:15 a.m., *1:40 p.m., *5:31 p.m., *10:10 p.m.
The Haleiwa Limited, a two-hour train (only first-class tickets honored) leaves Honolulu every Sunday at 8:30 a.m., returning arrives in Honolulu at 10:10 p.m. The Limited stops only at Pearl City and Waialua outward, and Waialua, Waipahu and Pearl City inward.
*Daily. †Except Sundays. ‡Sundays only.
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