BY PROF. GARRET P. SERVISS.

ination of both the learned and the emergence of suns, planets, satelites unlearned as no other branch of out of the nebulous clouds The science does, and some of its recent process is there before your eyes. advances appeal with particular You cannot dispute it. The variforce to the inquiring mind, which, ous stages of world creation are reconscious of superiority to merely presented, not all in one nebula, of terrestrial and temporal things, course, but in many nebulae, in reaches continually torard the in- different stages of development and finite and the eternal realities that condensation. If we had sufficient alone can satisfy it. Among these time, if human life were more than advances one of the most remarka- a span, we could watch the changes ble is due to the discoveries made in a particular instance. But it at the Lick Observatory with the takes millions of years to make a great Crossley reflecting telescope, sun and more millions to compact which is devoted to photographing a planet. Yet to doubt that the celestial objects.

Especially among those mysterious and wonderful clouds of faintly glowing gasses called "nebulæ" has this telescope proved its exceptional power. Vast spirals, immense gulfs of blackness surrounded by luminous walls, intricate patterns of luminous nebulous traceries as delicate in structure as the finest lacework and beaded with stars, interlinked rings of light, gleaming. like the phosphoresence of the sea, but each so stupenduous in circuit that the whole solar system and many other solar systems together might be embraced by it; orbs of pale fire, whose gigantic, whirling motion, and whose gradual compaction into new suns under the pressure of gravitation, are all but visible-such are some of the marvellous shapes and appearances that these photographs show.

And most wonderful of all, where these strange scenes are revealed by photography, the eye frequently beholds nothing at all. One begins to suspect that before long something equivalent to the X ray of the laboratory will declare itself in astronomical investigations and will reveal a whole new universe within and around the known universe of stars.

In one respect particularly the

latest Lick photographs gf nebulae are intensely interesting. Frequently the question is asked by those who, although interested in astronomical progress, have not followed it closely, "Has the famous nebular hypothesis of the origin of to world been exploded by recent discoveries?" How the impression it had been exploded became so wide spread it would be hard to say, but in a wordy war over the path of no one studying the photographs in question could long entertain a

the process of discovery, as some over-zealous churchmen have pretended, it has been immensely strengthenened, and the Lick photographs alone would have given birth to such a hypothesis if the genius of Kant and Laplace had

doubt as to the nebular hypothesis.

Instead of being exploded through

Out of a nebula we came and into

not anticipated them.

at least, can be regarded as estab- holy gall to ask, "Where sre your lished. There are photographs, for Infidel Institutions of Charity?" instance, which exhibit as clearly Astronomy commands the imag- as any thing possibly could do the results of the process are before us represented by these photographs would be as irrational as to doubt that the grain of seed in the ground and the sprout pushing above the soil and the fullgrown stalk with its leaves and berries are all bound together as successive phases of one continuous process of growth and evolution.

Take the wonderful phtograph which Professor Keeler, the director of the Lick Observatory, has recently discussed in the scientific journals, representing the strange Trifid nebula in the constellation Sagitar us one of the richest regions of celestial space within ken from the earth. The latest teaching of astronomy is that that curious haze sprinkled with stars and channeled with dark winding gaps running into endless branches like the roots of a gigantic tree, contains the potency of a future system of suns and worlds. No miralce is needed; no intercession of creative power. That nebula holds the atoms of coming planets and moons, and the essences from which their inhabitants are to be compounded. Once on a time this solar system of ours was as formless and chaotic as that huge mass of glowing gasses in Sagitarius. But it held the seed of humanity, awaiting its time to sprout and spring up and grow into the beauty of the "image of God." --[N. Y. Journal.

Religions - Religious questions have created more discord and hatred between men than all other kinds united, but never in one single instance did two sects indulge duty in connection with orphans in distress. Their discords have all been over the meaning of Scripture, in man-made creeds and their effect on passion and prejudice .-Two Worlds.

Religion, as usually difined, creates and sanctions widow and orthan making war, and it sustains the fraudulent financeering of government which keeps millions of families in constant distress. The a nebulae we shall return, is a Christians stole the Atheist Girard's

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That widely famed scholar and very venerable Freethinker, Judge C. B. Waite, has generously given the Liberal University a complimentary copy of his critical work, Freethought: Past, Present and Future. "History of the Christian Religion to the year 200": Fifth and revised edition, with a valuable appendix. The L. U. O. thanks the kindly Author, and the Torch will review it later. Copies are for sale at this office at the publisher's price, cloth, \$2.25, full sheep, \$3.00.

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