

changes or activities of the components of these five forms of matter, so far as is now known. All elements play together and then apart, in the infinite dance of worlds, molecules and atoms—through all the forms of matter.

BIOLOGY.—So far, that is, in the Physical and Chemical Departments of our Tower of Science, no sign of life or consciousness has been disclosed. But we have been brought to our third story, or Biology, by examining the viscid form of matter now found only on the surface of our Earth, the "primal slime" of Lorenz Oken and Goethe. This protoplasm only, as far as is known, possesses the "power, potency and FACT of life." This faculty of life, that is, of continuous growth within, and reaction against and over its environment for its own benefit, makes it the most wonderful of all things. The poor, simple diamond is nothing beside this compound jelly formed by the chemical and vital union of Carbon, Hydrogen, Oxygen, Nitrogen and bits of Phosphorus and Sulphur. The chemical symbols of these elements make the never to be forgotten memory-word, C. H. O. N. P. S. (Chonps). This is another name for Proto- or Bio-plasm, the name for LIVING matter, which we and all living things simply are.

These letters mark the timbers and beams which are the materials upon which this Third, the Protoplasmic, that is, the Biologic, that is, the vital or LIVING Story of our Tower rests. In this wondrous Story the matter is active AND also living, below, as we have said, matter is active but NOT living. Whether there is protoplasm elsewhere than on our earth in the boundless Universe may be presumed, but it remains to be discovered. But here it is. All the known life is on our Earth! To us the most interesting of things, for of it we are.

Notice how this story of Life, is divided or grown: First, there lies as on the sea shore, the vast expanse of the simpler proto- or bioplasmic organisms, the microbes bacteria, countless little fellows, in a word, Prof. Hæckel's Kingdom of the Protists; and, noteworthy, you see leading them, the YEAST CELL, the key by which Pasteur and others unlocked that kingdom for us.

But note, also, how out of that evolves and grows up the kingdom of plants (Botany). They blossom out from the modest moss to the Sequoia Giant, 500 feet high. Then note further, that by their side and with, through and among them, each leading and supporting the other, the still more wondrous kingdom of animals—gradually evolves and gives us Zoology. They achieve by their novel means of growing, living and getting food, the crowning glory of motion, consciousness, and finally TELESIS, the adjustment of means to reach imagined ends, as

Prof. Lester F. Ward says it. Out of this need of adjustment grew comparative Sociology, and finally MAN in human tribes, clans and families, with human societies and their history.

Thus the Third Story grows up to support (as all other stories do) a successor—a new dominating element which had appeared and which arose above, and controlled or used, the inorganic worlds of Astronomy, Physics and Chemistry, and also the microbes (in time it will), and the plants and animals and wild anarchistic men—I mean the social life of man. This new power of organized human societies, co-operating within themselves, and with each other for their common benefit, meant U. S. and a wondrous Future.

SOCIOLOGY: Here we have it—the Fourth Story, that new element or power—the politico-Social. It has over-grown the rest of the animals and brought to its use the dynamics on the Earth's surface, so that now Man controls it as if he were its God. The Science of historical evolution—associating and co-operating Man—reveals to us the greatest BEING KNOWN—HUMANITY!

From this throne, as from his lofty Seat of Empire, collective MAN is preparing to rule the world, and finally HIMSELF, and then wars and conquests and extreme misery will cease.

MORALS: But this associative, co-operative power, thus to be expended, must come from somewhere—must correlate from the parts of its whole. And who are these? The individuals, of course! Society, the State, Republic, and final Federal Republic of the Word, or Humanity itself, can never be greater or better than the converging, co-operating and sustaining virtue (manliness), activity and culture of its individuals and masses will ensure. The first duty of every City, State and Republic, therefore, is to secure the education and efficiency of its youth and their culture. Morals, then, or Ethics, meaning the individual's education, development and free growth as far as possible, is the essential condition of the welfare and satisfaction of each and of all. The UNIVERSITY becomes thus Chief Nursery of the man and woman upon whom the Future rests, and for whom it waits.

A true University must become, as this Institution is becoming, a key to the Exposition of the Universe—a Tower of Science resting upon the Infinite, and sustaining the Temple of Humanity. Thus only can it now be rightly named a University. The outline of THAT we have here diagramed and briefly described. Its material foundation and two first stones opened up by the MATHEMATICS, observation and experiment; we must begin with the digits, the numbers 1-10, as the

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