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THE PRESENT RIGHTS AND plications of this knowledge to the arts - DUTIES OF SCIENCE.

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The great truth underlying the subject of this paper is that; everything human has its ethical aspect, A stone, a brick-bat, an ounds of dynamite, or un ounce of gold, may in itself be absolutely unconnected with the domain of morals; but so soon as it comes, into human hands questions of right and duty clust r round at. If this is true of merely mut can though, still more is it true of operations of mind. Every thought, every imagination, every conclusion, has direct relations with the morai nature as well as the intellect. It becomes us, then, in siewing the materials of our modern civilization, and social systems, to regard them from this point of view, and not to allow any blrow ent an Leonda ed et reweq tasng without questioning it as to its duties and asc rtaining what are its rights. It is in this ctaical aspict that I desire for a little to regard the developments of modern science.

Secare is a term of wide application, and may include any of those subjects of auman thought in which facts are systematically arranged and referred to definite general principles. I propossible to tak, a narrower range, and to a tau let myself to chose sciences which relate to matter and force—the physicat and biological sciences. Not that, with one of our modern schools of : thought, I regard-these as including all science worthy of the name, but because these have in our times attained a growth so yast, and have come to bulk so largely in the eyes of men as agencies for good-or-evil-...

... The rapid advance of precise knowdedge and of inductive results with . reference to matter and the energy

and utilities of life, constitute indeed one of the main features of our timeone by which it is markedly distinguished from bygone ages, and one by which it will probably be characterized in the estimates formed of it by ages to come. . . . . . . . .

The cultivators of science have also come to be a most important class, even in numbers, and in influence greatly more important; and while on the one hand they any ir as patient, self-deny. ing plodders, toiling for the good of their fellows, on the other they become aggressive and troublesome when they attempt too rudely to explode our old deas or to change our old ways.

What dries, then, does society owe to science and its cuitivators, and what rec procal rights devolve on them? Or. to put in the converse way, What are the rights of science in relation to society, and what its duties to society in ceturn ?

With reference to its:rifhts, science has fared very differently in different periods. In the dawn of civilization we can see in Chaldea and in Egypt bodies of learned men sheltering their scientific pursuits under the garb of religion, and cultivating; as a means of securing consideration, no little charlatanry in the form of astrology and divination. Yet these adventitions claims were sometimes dangerous as well as profitable. If the magi of Babylon had not mixed up their science with the forecasting of events and the interpretations of dreams, Nebuchadnezzar would not have condemned them to be slaim and their houses made a dunghill. It is not to be concealed that similar baselesa pretensions may still produce conflicts between science and other powers in society.

In the Greece-Roman period, with a ZThe right of investigation was which actuates it, and the myriad ap few exceptions, among which Aristotle be said to be freely granted to nece

stands projem nent, forence mander of from the safe paths of acquiate investition into those of speculative philosephy, prematurely grasping at the un. mate explanations of things; and so lost credit and cultivated opposition and contempt. We shall see that still the same tendencies produce like result.

The Arabian science, one sided and nnequal and never menetrating the mass of the people, owed; whatever :: possessed of good to the inheritance of the practical culture of the East as dis tinguished from the speculations of Greece. Short-lived and leaving only a few brilliant results it list at one time been unfairly overlooked and at another unduly exalted. See ast.

In rea Middle Ages, admidst the ex A fat the disof an old world and the birns of a disaf the dread realities of life and death pressed too heavily on men's minds to permit much scientific activity, and caused them to cling to civil and ecclesiastical despotisms subversive of free thought and fatal to scientific progress. Yet in those dark lages were laid many foundations of good things to come.

With the emergence of the modern world out of the choas of the Middle Age, came the revival of learning and the birth of modern science from the first a healthy babe, cradled by the ancient and modern literature and the reformed religions; at first walking hand in hand with them, but latterly slowing a tendency to use its young, vigor to smite down these its old nurses and associates, and to claim the whole field of humanity for itself. It is this yourg Sampson, revelling in his earl er strength, who presents himself to u now, that we may consider what right he should enjoy, what duties be sive perform.