

only, for instance, of the cyanide processes for the recovery of gold from its ores, of the technical development of benzene and its derivatives, of the electro-chemical industry, of the improvement of steel-making, of the synthetic production of substances like indigo which were formerly procurable only as natural products, and of the utilization of the nitrogen of the air in the manufacture of fertilizers. Among the many practical benefits resulting from the development of physics, we naturally think first of some of the more recent—the telegraph, the telephone, wireless telegraphy, electric motors, and flying machines. From the sciences of the earth man has profited enormously—for they have led him to stores of coal and iron and other buried treasures. From oceanography already there are conclusions of importance in connection with fisheries, and meteorology, another very young science, has already to be thanked for much saving of life and wealth through its prophetic weather reports.

On the biological side we may mention, as diverse illustrations, the applications of bacteriology in surgery, hygiene, agriculture, and the preservation or improvement of food; the application of "protozoölogy" to the study of such diseases as pébrine in silkworms and sleeping-sickness in man; the