

# PHYSICS, SCIENCE AND HUMAN BEING

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## Summary

Mathematics and Physics Information exchange and mutual stimulation between physics and mathematics have resulted in the present mathematical structure of physics as well as the new trend of mathematics especially with regard to computer science.

Physics and Other Sciences Physics has the most advanced structure among sciences. The brilliant results obtained in physics have been used to find facts in other sciences. Methods successfully developed in physics have been tried to be extended to other sciences. These efforts have so far looked successful and resultful. However, the limitation of the efforts to extend the present method of physics to cover other sciences has been gradually recognized by some scientists, especially engaging in complex systems of material and in irreversible systems of livings.

Science and Technology Sciences are not isolated in present human society.

Through technology or engineering, results of sciences have been rearranged, reinforced and enlarged to give enormous impact to human society, mainly in good direction but unfortunately partially to evil direction.

Technology and Human Society Technological development is absolutely necessary for some part of the world, the developing part of the world, while too much and too fast development of technology should be controlled in advanced industrial countries. However, the reality in the present world is just reverse. No actual development of science and technology has been seen in the developing countries. Economic competition and military maneuver among industrial countries have stimulated big investments of science and technology, resulting in unbalanced instability of human society.

Human Society, Science and Scientists The majority of scientists are busy to survive as scientists without time to consider what kind of impact will be made from their scientific results to human society. The majority of scientists are of so called one dimensional personality, strong in science but weak in other human activities. Scientists and engineers are spoiled children in industrial countries. Spoiled children will produce a big amount of material fortune, which can be used to any direction, even to a massacre of human being. Only political and economic efforts to reduce economic competition and military maneuver can resolve the crisis of the present world. As a matter of course, we can request scientists should have the spirit of self-control and the transfer of scientific results to the hand of engineering should be carefully controlled. As a history of human development has shown, however, this kind of self-control is very difficult. Only the minority of scientists and engineers have the spirit of self-control. The collaboration among self-controlled scientists,

engineers and political leaders of excellent human quality can solve the present fatal situation of the world with too much development of science and engineering in the industrial countries, terminating with some possibilities to the massacre of the human society and to ever-lasting poverty of the developing countries.