Conclusion

> *Excluding a nuclear war and any unforeseen collapse of the civilization then world requirements in energy would be probably considerably higher than those determined by a general extrapolation. We base our prediction on three observations: a lot of people all over the world suffer from starvation; a lot of people all over the world suffer from poverty; a lot of people all over the world suffer from environment pollution.*
>
> *Seaborg G. T., Corliss W. R. Man and Atom: Building a New World Through Nuclear Technology, Dutton and Co., Inc., New York, 1971*

The age of mineral resources energy will probably end in the nearest future. And it is evident that humanity will thoughtlessly burn in its cars a half of extracted oil and gas. That grim conclusion is based on the main incontestable fact: the quantity of the mineral resources on Earth is limited and the resources are irreplaceable. If we estimate it in $Q = 10^{21}$ watt-second, then the world resource of oil and gas equals 10Q each, while there is approximately 20 times more coal, about 200Q. In 1960 the world energy consumption was equal 0.1Q per year; in 1975 it was about 0.4Q per year. It is assumed now that every 10 years the energy consumption is doubled. It is easy to calculate when the energetic Apocalypse will begin. Hopes for both hot and cold nuclear fusion nowadays are quite frail. That is shown at some relative graph, its concrete shape of course may be disputed but in general it seems to be absolutely correct.

The block curve is the energy to be obtained from minerals. The broken curve is the possible forecast, if the main idea of that works appears to be true. The deceleration of energy consumption growth is due to the world restriction on energy generation caused by the heat pollution of the environment and by CO_2 emission. That will put a serious ecological obstacle in the development of the civilization. The question is that in the process of energy liberation only one third of the heat energy obtained burning the mineral fuel is transformed into the power energy. The other two thirds have to be wasted in the form of heat in the environment. And in the long run about 99% of the total generated energy is again transformed into heat. Eventually we have a vast garbage heap of energy.

If the ideas described here were true then we would have a lot of free space at the heat energy garbage heap. More important, it would be possible to prevent the further emission of CO_2, Damocles' sword for civilization. Today UN is seriously putting the questions of limitation of heat and carbonic environment pollution. On the other hand in accordance with the forecasts of the American Administration, the USA is close to a tremendous fuel and energy crisis. They are starting the attempts trying to avoid it. There is no doubt that the expected crisis will be global. Simply the USA State Administration has better foreseen the problem than it happens in other countries. Because of this there is no doubt that any promising scientific direction in the field of new power engineering will be examined and so the authors are confident for their ideas.

As our theory does not contain energy and momentum conservation laws for single micro-processes it makes an absolutely new approach to the development of new energy sources.

The generally accepted quantum theory is not fully adequate with respect to numerous new experimental data, to the series of observable physical processes and phenomena (cold nuclear fusion, nuclear transmutations in plants and

biological objects etc.), and becomes today, in our opinion, an obstacle on the way of new energetic. Besides, this theory does not describe, in principle, individual quantum events, but our approach allows to describe such events and shows the way of using redundant energy for the commonwealth. We wish to express our conviction that the time of the theoretical recognition and the practical use of over unity devices will soon come. The peoples of our planet will regret that so much oil, coal and gas was burned causing terrible ecological losses.

It is possible on the other hand that the appearance of new field basis may become decisive for the science in all problems of strong interactions and mass spectrum that turned out to be inaccessible during the whole century. And the question is not that the modern theoretical physics is not able to solve some non-linear equations. For the time being the standard approach just does not allow to formulate the problem of computation of the mass spectrum of an elementary particle.

It is hard to assume the attitude of experts in quantum science to our guerrilla acts on the home front of it. It may be the dramatic situation forecasted by R. Feynman in his work "Character of Physical Laws": The astronomers of Maya Civilization were able to calculate the moments of sun and lunar eclipse with a great accuracy. They had special mnemonic rules and mathematical tables made up for these purposes. And they successfully used these tables.

Assume, R. Feynman says, that a modern third year student of celestial mechanics comes to these astronomers and says: *"Look, maybe everything is nothing of this kind, maybe the Moon, the Earth and other planets are big stone balls revolving around the Sun, maybe they periodically overshadow it and that is the reason for eclipses?"* And the Maya astronomers answer: "Are you able with your theory foreseen exactly the moments of eclipse beginning? No? Go away!"

The UQT is extremely simple and understandable science in its concept. The fact that equations appearing are non-linear is not an obstacle in quantum problems solution. The World is appeared to be mathematically complicated and non-linear. And the Golden Age of linear differential equations with general analytical solution probably has gone away irretrievably. Maybe some of our ideas are paradoxical and heretical, but only the time is able to answer the question whether the Nature proceeds in the way we have assumed.

Probably the authors have omitted some important results, appealed not to discoverers of that or other direction and even have forgotten to allude to somebody. We make our apologies.

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