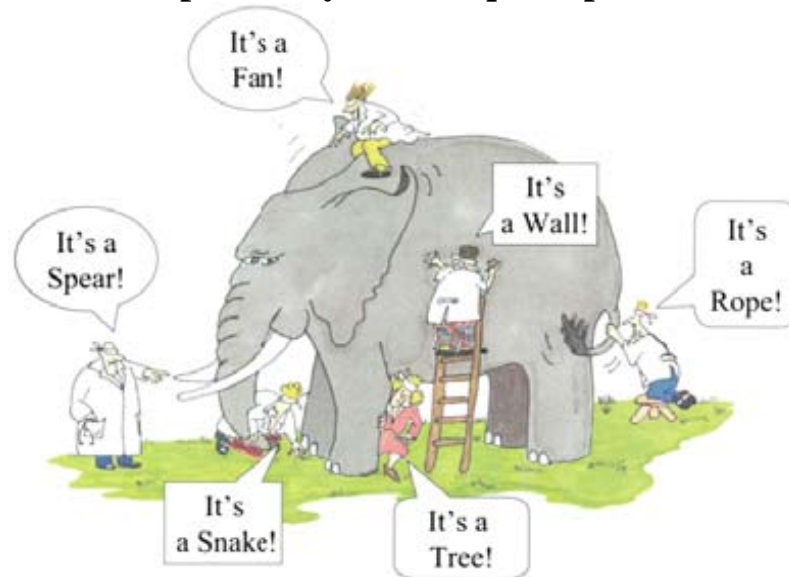


On the possibility of earthquake prediction



Introduction- foundation of the Project

In the time of the foundation of today science hundreds and thousands years ago the scientists were encyclopedic. Now the scientific specialization is a little squeezed which is the price of successful progress in many branches of mathematics, physics, geophysics, meteorology, astrophysics, space research, biology and etcetera as well as in technology.

However in the last time there are many examples when the solving of problems is possible in more widely interdisciplinary unification. For example, the "Big Bang" model of the Universe start becomes successful within the development of the model of elementary particles which unifies electromagnetic, weak and strong interactions (the Standard Model). The understanding of the elementary particles world was not being possible without the developing and designing of elementary particles accelerators. Today understanding of the visible Universe is based on astronomy, satellites technique, and astrophysics, theory of space and time, and quantum nuclear theory.

But the discovering of the hidden mass and energy in the Universe is telling us that our science is in the first steps of understanding the Universe.

The same can be stated concerning the knowledge for our Earth interior and dynamics in agreement with the official scientific opinion that the "when, where and how" earthquake prediction is not possible. Of course, in the framework of seismology, which theory is based on the classical mechanics solid state theory, such statement seems naturally true. But is is well known that before, in the time and after earthquake there are not only seismic signals but also electromagnetic signals under, on and up Earth Surface, many phenomena in atmosphere (earthquake clouds, light, etc.), in ionosphere as well as in the near space and biological signals.

So, the understanding of earthquake process has to be treated in the framework of quantum theory, where the bear of electrical charge is possible when there are critical changes of pressure and strain. We have to know the origin of the powers which move the continental plates- Vegener movement, and regulate the Volcanoes dynamics. Why there are two Earth nuclear, is the radioactivity the only source of Earth heat. How the Sun, Moon and other planets tidal power is distributed inside the Earth and on the Core. How the generated from the Earth tide waves interact with faults. Why the tidal extremums are earthquake trigger in statistic sense.

One would remind that before airplanes many scientists stated that it is not possible. The same was before the man cosmos fly. The official scientific opinion needed more then 20 years to recognize the today Global warming and now almost all are speaking that reason for it are the anthropogenic greenhouses gases. But we have to analyze the Sun and Cosmic rays influence on

the clouds formation, the dust distribution in the Sun system Galactic orbit, the variations of geomagnetic field if we want scientifically to know the reason for Global warming and what we have to do in the future for creating the conditions for Harmonic existence of our Civilizations.

There is some analogy between the earthquake prediction problems of the situation in elementary particle physics some 30-40 years ago. The above figure illustrates this situation. But the physicists created wide experimental and theoretical groups, world information systems, new accelerators technologies and created the Standard model of elementary particles and Big Ban model of Universe start.

We hope that in the framework of wide interdisciplinary group, using the complex monitoring regional NETWORK set and today acquisition system possibilities for analysis and discovering of hidden (not known) dependences as well as laboratory simulation of earthquake process the earthquake prediction problem can be solved for some years.

In the next is our imminent earthquake prediction Project

1. History of Earthquake Prediction Research

2. Experimental data for complex research of Earthquake precursors:

- Geological and seismological precursors, including depth and surface distributions of Electrical resistance and Temperature of the soil, Gravimetric isolines and priciest GPS monitoring, Hydrochemical monitoring of water sources and their Radon and Helium concentrations
- Electromagnetic monitoring under, on, and over Earth Surface, including Geomagnetic and Earth Current monitoring, ULF and LF Radio wave Pulsed LF-HF-VHF Ionosphere Radio Emissions monitoring, Attitude electropotential Shuman resonance distribution,
- Standard meteorological monitoring, including Ionosphere condition parameters, Earthquake clouds
- Near space satellite monitoring of Earth Surface radiation and temperature, geomagnetic field and charge distribution and its correlation with surface and atmosphere data
- Sun influence: radiation, storms, magnetic variations
- Biological precursors
- Laboratory simulation of earthquake's processes.

3. Theoretical researches

- Research on the common parts of different models of Earth and its Crust conditions, Tidal processes, Earth geomagnetism, Ionosphere and magnetosphere perturbations revealed from combined satellite and ground records (Lithosphere-Atmosphere-Ionosphere Coupling), Earthquake physics models, possible unifications of above sited and new created models
- Researching of empirical dependences between planet Earth condition parameter on the basis on nonlinear inverse problem methods, systematic of earthquake parameters: magnitude, intensity, depth, the size of volume and surface fault on the basis on nonlinear inverse problem methods
- Global warming, ocean level and increasing seismicity, Stcetera

4. Technologies

- Real time data acquisition system for preliminary archiving, testing, visualizing and analyzing the data and regional risk estimations.
- Procedures and Software for solving nonlinear problems

5. Complex World NETWORK for researching the solution of "when, where and how" earthquake prediction problem.

6. Cooperation with governments, industry and insurance business for reassessment of earthquake pessimism.

7. How to organize the Collaboration PrEqTiPlaMagInt for successful FP7, NATO and others institutions. Collaboration with the institutions which are researching the earthquake prediction problem

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