

Simon Shnoll's letter

Dear Francesco Fucilla,

Thank you so much for the videos of the presentation ceremony at Yalta (Gurzuf). I have been inspired by the honour of receiving the medal of Telesio-Galilei Association and the 400th anniversary in August 2009 of Galileo's speech in the Venice Senate on the wonderful picture of the universe revealed by his telescope, and after returning from Gurzuf I have presented a lecture to my students on "Overcoming the barriers obstructing new knowledge".

I have found it instructive to follow the evolution of the most general principles of scientific investigations from Anaxagoras and Socrates to Telesio and Galileo and beyond the 400 years beyond Galileo. I even took the risk to ascertain the impact of my own investigations that have been carried out over the past 50 years.

In this lecture I pointed out that the creation of Telesio-Galilei Association is an important event, directed towards the facilitation of scientific progress. The acquisition of New Knowledge is related to psychological and material problems. Psychological because the opposition to a new world view is inherent in human society that dreads any impairment of established perceptions based on the experience of previous generations. Material problems arise when financial support depends on the opinion of the followers of currently accepted views. The positive attention of Telesio-Galilei Association towards new directions in science is of great psychological importance. Such attention can also provide material support of novel scientific inquiries.

In my persistent work I started the investigation of the relationship between the measurements of natural processes with fluctuations caused by the motion of the Earth in a heterogeneous space-time continuum. My own situation is analogous to that of Galileo when he pointed his telescope towards the sky. The "picture of the starry sky" is reflected in the results of my measurements, *i.e.* the fine structure of the spectrum of amplitudes of fluctuations. These fluctuations can be used to observe the changes in the picture of the starry sky, such that my novel method can serve as a "telescope". The fluctuations and the "pictures" of the sky are changing continuously and regularly.

I have detailed my results in a recent book: "Cosmophysical factors in random processes". This book has already been made freely available in Russian by the Swedish Publishing House, Svenska fisikarkivet (Swedish physics archive) on the Web:

<http://sfa.ptep-online.com/books/shnoll2009ru.pdf>

According to the custom of this Publishing House this implies an obligatory printed edition in English, which is freely distributed to libraries and on the Internet.

I am continuing my observations and expanding the methodology of my investigations. However, I have no funding not only for equipment or a modest salary for three of my collaborators, but also, crucially, not even for translation of this book, which summarizes half a century of my work. I would be indebted if the Telesio-Galilei Association could expand on the psychological support shown to me with the honourable award and extend a minimum of material assistance that would allow me to translate this book - a culmination of my research.

I would like to thank you once more for the important support by the Telesio-Galilei Association.

With best regards,
Simon Shnoll