



Theme: Other

Title: Regularities of Evolution at the unicellular level through the time

Type of Activity: Workshop

Organiser: Valeria Mikhalevich, Zoological Institute of Russian Academy of Sciences

Target audience: Scientific Community, Media, Teachers, Students

Date and Location: 00.00.0000, 00:00 bis 00.00.0000, 00:00



Synopsis:

The theme is offered in a frame of proposed thematic track: Regularities of Evolution at the unicellular level through the time. (It is interconnected with the themes: 6) The Nature of Time , 11) Evidence and Belief, 12) Environment, Energy and Resources.)

Evolutionary processes were previously studied based on the multicellular organisms. The unicellular organisms have some peculiar features of their evolution because of their tiny dimensions and poorness of their morphological structures. There are also some regularities common for both unicellular and multicellular organisms but nevertheless not studied and not demonstrated at the unicellular level yet. Those general as well as the special evolutionary regularities will be exemplified by different Protistan classes showing unity in variety. The problems of the monophyletic or polyphyletic rise of many groups, of parallel and co-evolution development may gave rise to discussions. General regularities of the evolution will be demonstrated on the strikingly specific unicellular groups of organisms. These different groups have long geologic history developing since Cambrian till Recent which gives the possibility to underline the differences of the biological time when time is materialized and preserved in the substantiate form of the fossil remnants. The Evidence of these remnants gives the more wide field for Belief then in the experimental branches of Science. The elucidating of the general evolutionary rules provokes to compare their action in the other spheres, for instance in the social ones. As these unicellular organisms are at the same time used as the indicators of the Recent and Paleoenvironments and as the stratigraphic markers of the harbohydrate bearing strata the aspects of the theme 12) Environment, Energy and Resources can also be touched. Thus the theme has general, discipline specific and interdisciplinary character.