

Creativity in the Modern World

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Abstract. The Ponomarev conference was held on September 26 – 27 in Moscow (Institute of Psychology, Russian Academy of Sciences). The main idea of the conference is to create the foundation for interdisciplinary systemic research of creative process. Among the conference's topics were: prospects of computer modelling of creative process; the problem of the biological foundations of creativity and the dual cultural-biological determination of its evolution, etc. The general range of problems and the kinship of principled approaches to their solution allows us to look to the future with optimism and hope for the formation of united fundamental scientific approach to the study of creativity from mosaic theoretical models of creativity, the emergence of which was predicted by Y. A. Ponomarev. The conference proceedings (in Russian with English abstracts) are available on the conference website: <http://ponomarev.ipran.ru/>

Keywords: Ponomarev conference, interdisciplinary systemic research of creative process, Institute of Psychology, Russian Academy of Sciences

In the fall of 2020 (September 26 - 27), the Institute of Psychology of the Russian Academy of Sciences held one of the most unusual conferences in its history. The forum dedicated to the 100th anniversary of the birth of Yakov Aleksandrovich Ponomarev, one of the pioneers of creativity research, fell on the period of a pandemic and demanded from the organizers a non-trivial approach to its conduct. The format of the conference, despite the fact that it was initially dictated by difficult external conditions, in the end turned out to be successful for the implementation of the main meaningful idea: the organization of a dialogue among researchers of creativity working in various fields of science and locating in different parts of the world. The online format made it possible to implement a productive exchange of views on thematic platforms, and the videos posted on the conference website made it possible to get acquainted with all the events, which is very difficult in the framework of traditional conference formats, and to provide scientific communication that continued after the event. The main idea of the conference, as D. V.

Ushakov noted in the opening speech, is to create the foundation for interdisciplinary systemic research of creative process.

The invited speakers discussed the current state and main trends in creativity research in different fields of science and different countries. Substantive overlaps in the reports of scientists who are far from each other in their subject areas were especially interesting. Thus, Michel Ollinger, a psychologist from Munich, and V. L. Dunin-Barkovsky, a physicist from Moscow, discussed in his reports the results and prospects of computer modeling of creative process.

Tod Lubart and A. G. Asmolov talked about the interaction between environment and person, the role of creativity in the interaction of person with environment and the formation of human psyche. Yu. I. Aleksandrov and Michael Woodley considered the problem of the biological foundations of creativity and the dual cultural-biological determination of its evolution.

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Many theoretical ideas of the participants came from Ya.A. Ponomarev theory of creativity mechanisms. In particular, the possible mechanisms of unconscious intuitive components of solving creative problems were considered. Special attention was paid to the key idea for this theory - the idea of a "by-product". This idea suggests that one of the main mechanisms for a successful creative solution is a person's analysis of patterns found in the course of the solution that are not directly related to the problem being solved, which allows restructuring the representation of the problem and leads to an unexpected and instantly solution.

Along with fundamental scientific reports, the organizers provided for a series of master classes aimed at acquainted with the modern research tools. K. B. Zuev spoke about the prospects for using scientometrics as a tool that allows not only assessing the effectiveness of scientific activity, but also suitable for meaningful subject research. E.V. Pechenkova introduced the

audience to the possibilities of using the method of functional magnetic resonance imaging in creativity research, and I.I. Ivancey discussed with the participants of his master class the prospects for using modern methods of data analysis (linear models with mixed effects).

The busy schedule included along with classical reports and interactive sessions, which involved discussion on the basis of materials presented in advance by the participants, made it possible to ensure productive work in all the declared thematic areas of the conference. The content of these areas was wide and varied: resources and potential of creativity, insight and problem solving, neurobiology of creativity, the problem of creativity in education, cognitive development and creativity, and others. The topics of the directions reflected the current state of creativity research and outlined the points of growth and integration of individual theoretical models and applied research in this area. A unique by-product of the conference was that the event did not end when it officially closed. The recording and materials of all reports can be found on the conference website (<http://ponomarev.ipran.ru/>), and discuss the presented material with the authors using e-mail addresses.

The conference proceedings were published in digital format and is available on the conference website: <http://ponomarev.ipran.ru/>