SEMINAR

Perspectives of Conservation Science and Archaeometry at Far Eastern Federal University

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Dr. Igor Buravlev is an experienced multidisciplinary materials scientist specialising in the synthesis of inorganic compounds, particularly by high-energy mechanochemical synthesis and Spark Plasma Sintering. Member of the Far Eastern Section of the Russian Academy of Science Scientific Council on Ceramic Materials.

Field of professional interest:

– fundamental and applied scientific research in the field of functional materials and modern technologies for their synthesis;

– development of technological methods of combined synthesis of new biomaterials, hard alloys, high-temperature resistant systems, carbide products and nuclear materials (ceramic nuclear fuel, radionuclide matrix carriers, etc.);

– development of methods for treatment of industrial effluents of complex composition and processing of technogenic waste;

– interdisciplinary research at the methodological interface of natural sciences and humanities towards materials science and physical chemistry in the study and conservation of historical, cultural and art objects.

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Abstract:

The report provides information on research conducted on archaeological objects in the Primorsky Krai region of the Russian Far East, using an interdisciplinary approach. It describes the formation of a scientific direction for the research and preservation of archaeological objects, with a focus on the physical and chemical context of the research. The report also discusses the acquisition of special competences through internships in museums and educational centers in South Korea, and their integration with the efforts of the Far Eastern Federal University (FEFU). It details the methods used to work with archaeological collections and the development of new techniques for preservation and restoration. The report highlights the need for an interdisciplinary approach in working with different types of materials and cultural heritage collections. It also presents the results of research on various ceramic archaeological objects, such as Sancai glazed ceramics, ancient ceramic casting molds, and “red-and-green” porcelain figurines. The report concludes with the formulation of current scientific problems and goals for the joint team of FEFU, as well as the prospect of using the upcoming synchrotron "Russian Photon Sources" for archaeometry research.