

EDITORIAL

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PREFACE

The issue of the journal begins with an article on French sinology. French sinology takes a special place in the history of the sinological studies development. It was France that became the first country where the transformation of missionary sinology, which was common among a limited circle of researchers (mainly in a religious sphere), into the academic scientific discipline, which had already been taught and studied at a professional level in academic institutions, occurred. The Parisian type of sinology used to dominate the entire world for a long time, including such powerful centers of Chinese studies as Germany, Great Britain, the USA, and China itself. In order to form a complete picture of sinology development in France, the authors singled out and analyzed three historical periods covering the entire history of Chinese studies development, starting from its birth and flourishing to the process of stagnation.

Modern scientific communication traditionally uses visual narratives, such as comics, for education, presentation of scientific achievements to a mass audience, and as an object of research. In the article by Oksana Hudoshnyk and Oleksandr P. Krupskiy, offers a three-level characterization of the interaction of comic culture and science in a diachronic aspect. Attention is focused not only on the chronological



stages of these intersections, the expression of the specifics of the interaction is offered against the background of scientific and public discussions that accompany the comics–science dialogue to this day. Emphasis is placed on the unique phenomenon of the simultaneous concordance of various stages of the dialogue between comics and science, on the prolonged replication of successful inventions into modern experience, and the active testing of known narratives at new levels of a scientific presentation.

The next paper assesses the topicality of Vernadsky's concept of the noosphere, coined over almost twenty years starting in the early 20th century. Emphasizing the uniqueness of Vernadsky's concept of the noosphere as the transformation of the biosphere by a man using reason, we concentrate on the assessment of the utopian or realistic nature of his vision of the future of humanity. Based on the philosophical case-studies analysis, it identifies the ideological roots of the noosphere concept, the development of views on the concept in time, the role of reason and scientific thinking, the opinions of its supporters and critics, and Moiseev's related concept of co-evolution.

Lectures de Potentia Restitutiva or *Of Spring: Explaining the Power of Springing Bodies* (1678) is an important book for the history of science. This book is better known for Hooke's presentation of the law that bears his name. In the article by Isadora Monteiro, seeks to study the *Lectures de Potentia Restitutiva* once again to better understand Hooke's thoughts about the rule which bears his name and his conception of gravity, which the author considered a force. Here Hooke's definitions of body and motion will be presented, as well as his actual objective when he formulated the so-called Hooke's Law. As we will see, Hooke intended to create a "philosophical scale" to measure the gravitational attraction between bodies. By considering his previous publications, such as *An attempt to prove the motion of the Earth from Observations or Micrographia: or some Physiological Descriptions of Minute Bodies*, or even unpublished works such as *On the inflection of a direct motion into a curve by supervening Attractive principle*, it becomes clear that Hooke was already opening a path toward an understanding of gravity before Newton's *Principia* (1687) were published. By taking into account the controversy between Isaac Newton and Robert Hooke, we also intend to strengthen the idea that Hooke was an indispensable contributor to the elaboration of a law of universal gravitation.

In 1915, the first occupational therapy school was founded by Jane Addams at Hull House (Chicago, USA). In that process, Addams inspired the first generation of occupational therapists, especially Eleanor Clarke Slagle. Thus, in the article by Rodolfo Morrison seeks to highlight the contribution of Jane Addams to the development of Occupational Therapy through an in-depth bibliographic review, from primary sources.

The next article presents the results of a study of the features of biographical and prosopographic materials about famous mathematicians and natural scientists, published in one of the most authoritative journals "Bulletin of Experimental Physics and Elementary Mathematics", which was published in Kyiv and Odesa during 1886–1917. In fact, the journal was an unofficial periodical printed branch of the Mathematical Department of the Novorossiysk Society of Naturalists.

The aim of the next research is to study the policy efforts conducted by the

Indonesian government since the beginning of independence in 1945 to present, in advancing science and technology and innovation. A content analysis approach is employed to identify each stipulated regulation in Indonesia in the form of Laws, Government Regulations, Presidential Regulations, Presidential Decrees, and Presidential Instructions. There are 78 regulations in the field of science and technology and innovation that are analyzed. The results of the analysis are described based on the emergence of regulations and institutional implications generated as part of the ecosystem.

In the article by Ihor Annienkov, based on the problem-chronological, comparative-historical, historiographical, and source-research methods, as well as the method of actualization, identifies the extent of borrowing foreign design and technological solutions in the Ukrainian Soviet Socialist Republic for projecting electrical machines in the second half of the 1930s, as well as the reasons for the absence of unambiguous information in historiography regarding the existence of this phenomenon in the republic at this chronological stage. The publication provides a general assessment of the quality of scientific support for the processes of creating electrical machines, establishes the ways of fulfilling the scientific-technical borrowings that were studied and the dynamics of their development, analyzes their role in the growth of the technical level of products of the Ukrainian electrical machine-building branch.

In the article by Mykola Ruban and Andrii Fomin, attempts to investigate the historical circumstances of the mastering and development of the industrial production of rolling stock in Ukraine from 1991 to 2021. In the course of the scientific development of the proposed research, materials from mass-circulation newspapers, industry publications of railway transport, as well as technical studies of employees of manufacturing plants were used.

The next discusses the conditions and prerequisites for choosing the location of the plant; considers the stage of the establishment (foundation) of the plant; examines the stage of plant construction and equipping it with technological facilities in detail; analyzes the development and establishment of the plant between 1897 and 1914. A brief analysis of locomotive designs produced by the Kharkiv Locomotive Plant from 1897 to 1914 has been made. The article shows the significance of Consultative Congresses of Traction Engineers for the development of railway machinery both at Kharkiv Locomotive Plant and for the entire railway industry.

The purpose of next study is to highlight the peculiarities of the development of the Russian aviation industry during the First World War. The focus is on analyzing production programs and matching their quantitative and qualitative parameters to war requirements. Production plans of leading Russian aviation factories as well as qualitative and quantitative parameters of products have been analyzed in the article.