

ABSTRACTS OF SOME ARTICLES

Vizgin Vict. P. **The Revolution in the Chemistry: Factors of Delay.** The Chemical Revolution has been depicted as a delayed chapter in the scientific revolution but not for the Chemistry. Why? That is the main question which guide the present article. The article has the objective to analyse the methodological, historical, institutional and conceptual obstacles (the alchemical one is included) to the Revolution in Chemistry made by Lavoisier first of all. It is stressed that the longevity of qualitative type of rationality (in the chemistry especially) is one of causes of this delay.

Kirsanov V. S. **An Unknown Newton's Correction to the 3d Book of the *Principia*.** In Prop. VI of the 3d Book of the *Principia* Newton discusses the problem concerning universality of the gravitation law in the Universe. He analyses the case when the forces of gravity for two planets are proportional to the ratio $e:d$, and deduces the result that the distances from the sun are proportional $\sqrt{e} : \sqrt{d}$ in this case. In Gregory's *Notae* the more accurate analysis is given, leading to the conclusion that in fact forces are proportional to the ration $\sqrt[3]{e} : \sqrt[3]{d}$.

Bayuk D. A. **Controversy between Vincenzo Galilei and Gioseffo Zarlino and its influence on the theoretical thinking of Galileo.** At the end of 13th c. two different trends in the development of aesthetics emerged which were known in theory of music as *Ars Nova* and *Ars Antica*. The main ideas of them were discussed by Oresme. They became also the subject of controversy between Vincenzo and Gioseffo. The natural course of controversy brought them to the problem of experiment and mathematics in the cognition. Essential features of new methodology can be expressed in aesthetic terms and be named «dispositional style» that brought a success to Galileo's mechanics.

Krasnov V. N. **Lend-lease and Soviet Navy.** The article touches upon the question of deliver of the Allied powers for the USSR materials, technology and armament. At the centre of attention is the Navy nomenclature. The author disagrees with the hither to existing assessment, apparently underestimated, of the assistance rendered to the Soviet Union in terms of lend-lease by the USA, Great Britain and Canada during the World War II. The significance of the imported equipments for the development of the Soviet Navy is shown.

Gorelik G. E. **What Did Soviet H-bomb Begin From?** Soviet thermonuclear project originated in Physical Institute of Academy of Sciences (FIAN) in 1948. The background and prehistory of this project is documented by materials from Archives of Oral history sources. Main are the memorandum of 1947 about «special energy» problem and A. Sakharov's archives documents.

Kozenko A. V. **On the Devision into Periods of the History of Astrophysics.** It was made an attempt to determine the position of astrophysics in the system of science and to division into periods its evolution. It was found four main periods: prehistory, initial period connected with spectrum analysis, development classical practical and theoretical astrophysics and modern stage.