



**Kamchatnyi V.,**  
graduate student of the National  
Technical University "Kharkiv  
Polytechnic Institute"  
(a citi of Kharkiv)

**EDUCATIONAL RESEARCH AND PRACTICAL ACHIEVEMENTS  
OF PROFESSOR I. P. OSIPOV IN THE PLANE OF ANALYTICAL  
CHEMISTRY**

**Summary**

Considering that educational research and practical achievements of Professor I. P. Osipov in analytical chemistry were covered in the scientific literature in fragments, the aim of this work is a comprehensive study of this topic. The questions of I. P. Osipov's teaching of analytical chemistry at the Kharkiv University and the Kharkiv Institute of Technology and his supervising relevant departments of chemical laboratories are studied. The contribution of the scientist in strengthen the material base of these laboratories, equipping them with the latest equipment at that time is emphasized. It is pointed out that most of scientist's studies are performed in sections of organic and physical chemistry. However, getting their results would have been impossible without the use of methods of quantitative and qualitative analysis. Scientist's studies in the field of analytical chemistry, particularly devoted to: a) application of sodium hypobromite to the separation of chromium from iron and aluminum, b) volumetric method of designation of ethylene and acetilene, c) history of chloride vanadium compounds, d) usage of naphthenic acids in inorganic analysis, e) the question of the volumetric determining of aluminum are summarized. An example of the first Osipov's practical analytical study devoted to the analysis of water in the river

Vorskla in Akhtyrka district which he completed in 1879 is submitted. The activity of the physics chemical section of the Society of experimental sciences at the Kharkiv University (1893 - Society of Physical and Chemical Sciences of the Kharkiv University), which was headed by scientist since 1891, in the scope of quality control of production (water, coal, kerosene, soils etc.). Practical importance of analytical Commission, created by a section in 1892 to combat the counterfeits of food (butter, vinegar, alcohol, halva, etc.) is stressed. All of the foregoing gives grounds for conclusion about a substantial scientific, pedagogical and practical contribution of Professor I. P. Osipov in the field of analytical chemistry.

**Keywords:** professor I. P. Osipov, analytical chemistry, scientific-pedagogical activity, Kharkiv University, Kharkiv Institute of Technology, Society of Physical and Chemical Sciences of the Kharkiv University