

Pedagogical system of formation and development of the methodological culture in the training course at the Department of Inorganic Chemistry of BSU

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The report is devoted to the history and methodology of the development of a pedagogical system for the formation and development of methodological culture among teachers and students of Chemistry at the Department of Inorganic Chemistry of BSU. The beginning of this system was laid in the mid-60s of the twentieth century by the head of the Department of Inorganic Chemistry V. V. Sviridov. It was developed in the works of his colleagues and followers. Historically, the following components of the pedagogical system of forming the methodological culture of the teachers and the students have been developed.

1. Methodological seminar for lecturers and researchers of the Chemistry Faculty. The problems of the seminar had two directions. The first was a discussion of the methodological problems of chemistry that have arisen in connection with the intensification of chemical research, the emergence of new areas, approaches, and methods in them. The second was a discussion of possible ways to project the new state of science on the content and organization of university chemical education. Subsequently, this seminar took the form of an international conference on chemistry and chemical education, which was called "Sviridov Readings".
2. Laboratory practice in Inorganic chemistry and course project. They are organized on the basis of the training and research approach, which was developed at the department.
3. Educational and methodological complex for the course "Methodology of chemistry" for students studying in the direction of scientific and pedagogical activity. The purpose of this course is to introduce future chemistry teachers to the necessary minimum of methodological knowledge and to demonstrate methodological techniques for organizing training based on the teaching and research approach.
4. The system of methodological support for the development of school chemical education using the research method of teaching.
5. Operation of the scientific and methodological journal "Chemistry: problems of teaching" (currently "Biology and Chemistry"). The journal acts as an intermediary between the educational process and cutting edge science, promotes the integration of education and science, reduces the gap between the content of education and the needs of a rapidly changing society, and paves the way for the future.