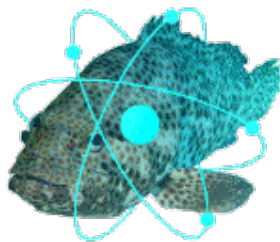


# CHERNE 2018 - 14th Workshop on European Collaboration in Higher Education on Radiological and Nuclear Engineering and Radiation Protection



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## Information and analytical support of the chemical component for nuclear knowledge portal BelNET

*Friday 1 June 2018 09:30 (30 minutes)*

This study deals with the initiative undertaken at the Belarusian State University (BSU) related to nuclear knowledge portal.

The International Atomic Energy Agency (IAEA) pays close attention to the problems of nuclear knowledge management. Every developed country with its own nuclear industry has to create and maintain a national portal of nuclear knowledge integrated into the global system of nuclear knowledge management. Nowadays under the auspices of the IAEA numerous national and international portals of nuclear knowledge are created in Europe, Asia, Africa and America. BSU is currently developing an educational and research web portal nuclear knowledge BelNET (Belarusian Nuclear Education and Training Portal). In the future we believe that this specialized electronic portal will be a national portal of nuclear knowledge.

Currently the concept of the portal BelNET, its structure and taxonomy according to IAEA requirements have been developed. Software of portal BelNET is free and based on electronic system eLab of client-server architecture. The mission of the portal is the formation of favorable information, socio-cultural, business and educational environments for sustainable development of nuclear energy in Belarus. The main basic principles of the Portal are transparency and continuous improvement. The content of portal is an absolutely unique product including information in nuclear physics, radiochemistry, radiation protection, water chemical regime (WCR) but it constantly requires updates and maintenance. The motto of portal is "Easy to use –easy to update".

The bilingual content for the Portal on the basis of the analysis of the water treatment process organization and WCR of the primary and second circuits at VVER NPPs including the Belarusian NPP has been developed. The water treatment schemes for NPPs are considered, various WCR of the primary and second circuits are analyzed. The original articles, books, IAEA materials, etc. in two languages (Russian and English) have been selected to be uploaded to the Portal. The glossary of the portal is supplemented with terms of nuclear energy. The prepared materials will be useful for students and teachers in the educational process as well as for employees of the nuclear industry. Now we have no doubt that the Portal is a necessary component in the present-day educational environment. The implementation of specified web technologies will serve to improve the quality of education, the motivation of learners, and economy of academic hours along with deeper mastering a subject.

**Primary authors:** KIMLENKA, Iryna (Belarusian State University); SAVITSKAYA, Tatsiana (Belarusian State University)

**Co-authors:** SYTOVA, S. (Belarusian State University); CHARAPITSA, S. (Belarusian State University)

**Presenter:** KIMLENKA, Iryna (Belarusian State University)

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