TO THE 50TH ANNIVERSARY OF STEPAN NIKOLAEVICH KALMYKOV

On October 29, 2024, Stepan Nikolaevich Kalmykov, Russian scientist-radiochemist, Doctor of Chemical Sciences, Member of the Russian Academy of Sciences (RAS), celebrated his 50th birthday.

His professional life has been mostly related to the Chemistry Department of the Moscow State University. After graduating in 1996, he went to graduate school at the Department of Radiochemistry and defended his PhD thesis on Radionuclide Transport through Geochemical Barriers. Then, in 2008, he defended his doctoral thesis titled The Role of Colloidal Particles in Actinide Transport with Groundwater.

Since 1998, S. N. Kalmykov has been working at the Moscow State University as assistant, associate professor, and since 2010, as professor. In 2011, he headed the Department of Radiochemistry, from 2019 to 2022 he was heading the Faculty of Chemistry, and since 2022, he has been working as the scientific supervisor. His knowledge and professional skills have been in high demand at RAS Institutes, including the Vernadsky Institute of Geochemistry and Analytical Chemistry of RAS and the Frumkin Institute of Physical Chemistry and Electrochemistry of RAS.

Stepan Nikolaevich is the editor of the Separation Science and Technology Journal, an editorial board member of a few journals, namely, Radiochimica Acta, Solvent Extraction and Ion Exchange, Radiation Safety Issues, Radiochemistry and the Radioactive Waste Journal.

Currently, Dr. Kalmykov is most actively engaged in the activities of RAS Institutes and the Department of Chemistry and Materials Sciences of RAS. In 2022, he was elected as the RAS Member and in the same year became the vice-president of the Russian Academy of Sciences.

Dr. Kalmykov's research interests mainly cover radiochemistry as applied to the problems associated with radioecology, nuclear medicine, spent nuclear fuel reprocessing and safe management of radioactive waste (RW). When studying the behavior of plutonium in various geochemical conditions, he was the first to show the dominant role of colloidal particles in radionuclide transfer from RW disposal facilities with groundwater. Stepan Nikolaevich was the one who has successfully developed the methods for the selective radionuclide extraction from aqueous solutions via new extraction systems and graphene-based nanomaterials, which, in particular, prompted the development a new method for medical radionuclide production, i. e., ^{225}Ac, ^{223}Ra, ^{67}Cu, etc., applied to treat particularly aggressive forms of oncological diseases.

Stepan Nikolaevich has authored over 300 scientific papers and is still teaching actively — he gives lecture courses at Lomonosov Moscow State University, supervises diploma theses and has lectured at a number of international summer schools. His research is well known abroad: as an invited speaker, he has spoken at more than 25 international conferences and is a permanent member of the steering committees for a number of international conferences (including Actinides, Plutonium Futures, Actinide XAS, Nuclear and Radiochemistry), secretary of the Interdepartmental Scientific Council on Radiochemistry and member of the bureau of the National Committee of Russian Chemists.

Dr. Kalmykov has been actively engaged in scientific and technical councils of the State Corporation Rosatom — he is a member of the Bureau of the Interdepartmental RAS Council on Radiochemistry and the State Corporation Rosatom, Deputy Chairman of the Scientific and Technical Council (STC) No. 5 Closing Stage of the Nuclear Fuel Cycle of the State Corporation Rosatom, he chairmans the section of this STC on materials for engineered barriers providing the safety of radiation hazardous facilities. Currently, he is scientifically coordinating the establishment of a strategic program for radiochemical development.

Dr. Kalmykov wined a few RAS prizes, including the I. I. Shuvalov Prize (2007), the V. G. Khlopin Prize (2016), and was awarded the Order of Friendship (2024) and a medal in connection with the 300th anniversary since the RAS foundation.

It is extremely important for us that Dr. Kalmykov actively authors the Radioactive Waste Journal. Scientific articles co-authored by Dr. Kalmykov are published in our Journal almost every year.

The editorial board of the Journal sincerely congratulates Stepan Nikolaevich on his 50th birthday and wishes him good health, further fruitful career and success in his scientific work