

# XXVIII conference on *Radionuclides and ionising radiation in water management*

The latest edition of the annual conference Radionuclides and ionising radiation in water management took place on 21–22 April 2026 at the Clarion Hotel in České Budějovice. The scientific coordinators of the conference were Ing. Barbora Sedlářová, Ing. Eva Juranová, Ph.D., and RNDr. Diana Marešová, Ph.D. (TGM WRI), while the organisational coordinator was Jan Kříž (ČVTVHS). The conference was attended by 63 experts, with 59 participants from the Czech Republic and four from the Slovak Republic.

The conference offered a diverse scientific programme focused on current research, monitoring, and legislative aspects related to the occurrence of radionuclides in the environment, particularly in water.

The conference programme covered a broad range of topics, from monitoring of the radiation situation and legislative changes in the field of atomic law to applied research focused on the behaviour of radionuclides in the hydrosphere. Considerable attention was devoted, for example, to the issue of tritium in water, which was discussed both from the perspective of analytical methods and in the context of current legislation.

Some scientific contributions focused on the hydrogeological and hydrochemical monitoring of selected sites intended for a deep geological repository for radioactive waste in the Czech Republic, including the assessment of radionuclide migration and transport in these environments. The conference also presented research results concerning mine water at the flooded Rožná uranium deposit, as well as issues related to the management of materials with elevated concentrations of natural radionuclides during the construction of the D11 motorway.

Another block of presentations was devoted to laboratory and experimental studies, including radionuclide sorption on nanosorbents, the leachability of natural radionuclides from waste materials, and the optimisation of analytical methods for the determination of selected radionuclides in complex matrices. Presentations were also given on the determination of radionuclides in the hydrosphere in the vicinity of nuclear facilities.

The conference included a poster section presenting, for example, statistical analyses of radionuclide concentrations in drinking water, monitoring of radionuclides in the vicinity of nuclear power plants, and new approaches to the determination of isotopes in air and water.

The conference once again confirmed its importance as a platform for sharing the latest knowledge, discussing current issues, and establishing professional



Fig. 2. From the excursion to the historic centre of České Budějovice (Photo: T. Bouda)

cooperation between institutions from the Czech Republic and abroad. The broad range of presented topics and the high scientific standard of the contributions contributed to professional discussion and the exchange of experience in the field of radionuclide monitoring and radiation protection in water management.

The conference proceedings are available at: [https://www.vuv.cz/wp-content/uploads/2026/04/SBORNIK\\_Radionuklidy2026.pdf](https://www.vuv.cz/wp-content/uploads/2026/04/SBORNIK_Radionuklidy2026.pdf)

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Fig. 2. Lecture session from the conference on Radionuclides and ionising radiation in water management (photo: E. Juranová)