



NEWSLETTER

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THE SURRI NEWS

1ST YEAR OF RESTORATION OF MINING SITES WITH SURRI RESEARCH

Dear SURRI fans,

There are many places in the Czech Republic where raw materials, including uranium, were mined in the past. Mining has left an environmental footprint, which is now the project's focus "Sustainable Remediation of Radionuclide Mining Impacts and Recovery of Critical Materials" (SURRI for short).

For the last 6 months, the SURRI team has been helping Czech mining sites with better and safer restoration. And now is the time to look back on our activities and research. Read on to see how SURRI works and what is our progress.

OUTSIDE RESEARCH DURING THE SUMMER MONTHS

We were again at one of our research sites in Stráž pod Ralskem in August. Our experts "sampled" water from various phases of technological remediation. In addition to water sampling, basic water parameters such as pH, conductivity, dissolved oxygen and redox potential were also determined in the field. This was followed by testing in the Technical University of Liberec laboratories, based on which the scientists characterised the metal concentrations and microbial images of the water samples.

A reporter from Czech Radio was here with us in the field work and reported about our research. More in the report (only in Czech):

[Scientists are exploring ways to extract rare elements from uranium mining waste materials.](#)



PROJECT MEETING AT THE UNIVERSITY OF SOUTHAMPTON

From September 21st to September 22nd, the SURRI project team had the pleasure of visiting their project partner, the University of Southampton (National Oceanography Centre).

"Sustainable Remediation of Radionuclide Impacts on Land and Critical Materials Recovery" - GA No 101079345

During this visit, the team met with all project partners online. This was followed by an informative tour of the laboratories and their state-of-the-art facilities. The colleagues from the University of Southampton presented their research topics that were closely aligned with the objectives of the SURRI project. Additionally, the team engaged in discussions regarding the potential for collaborative projects, exploring opportunities for international cooperation and gaining insights into preparing international initiatives. Special thanks to Andy Cundy and his team at the University of Southampton.



INSPIRATIONAL MEETING IN GRANADA

In the second week of November, we headed to the heart of Granada! SURRI team met at our great partner - the University of Granada. We had a packed programme with a tour of the labs, training in international projects and a workshop full of inspiring presentations from participants from TUL and UGR.



But that's not all! We gathered for a hybrid project meeting to review our work so far and reveal our plans for the coming period. Together, we are building the future and tackling our mission challenges.

SURRI TEAM IN COOPERATION WITH DIAMO COMPANY

How does SURRI research help to the restoration of former mining sites? For our international research, we have chosen mining waste and its sustainable remediation in former mining sites. Together with our research partners, the University of Granada, Università di Roma La Sapienza, the University of Southampton and DIAMO company, we are looking at how to use electrochemical methods and bioremediation most effectively.



The research team works with DIAMO, which provides access to selected mining sites under its management. Currently, the SURRI team have access to six sites chosen in Czechia (Horní Slavkov, Jáchymov, Kutná Hora - Kaňk, Stráž pod Ralskem, Zadní Chodov and Zlaté Hory), where the complete scientific team, assisted by foreign experts, has carried out water sampling. These were samples of water flowing out of mine shafts sludge from tailings ponds.

Experts from DIAMO, s.p. have long been investigating the possibility of extracting potentially valuable elements from process solutions in-house. Based on the concluded cooperation, data from these investigations were made available in addition to the sampling mentioned above for scientific purposes. At the same time, the two parties expertly discussed the possibilities of future use of the newly obtained results for the needs of DIAMO, s.p. The research is still in its early stages, but these first steps already show the key benefits of mutual cooperation between the scientific team from the Technical University of Liberec and experts from DIAMO.

Read more about us at Odpadové fórum:

#SURRI #project #mininglocality #bioprecipit #team #work #collaboration #research #cxiliberec #TeamWork #InternationalCollaboration

Our work is very important. The whole SURRI team, including members from Italy and the UK are trying to contribute to sustainable remediation and integrate the available resources. We want to protect the environment while finding innovative ways to extract valuable raw materials from these water resources.

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Thank you for subscribing to the SURRI MEDIA. You never miss our research progress.

Kind regards
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Great job: Miroslav Černík, Alena Ševců, Martin Palušák, Veronika Hlavackova, Nhung H.A. Nguyen, Marco Petrangeli Papini, Andy Cundy, Mohamed L. Merroun, Milan Hokr, Zuzana Musilová, Lenka Hanušová, Rafael O. M. Torres, Trung le Duc, Rojina Shrestha, Kateřina Černá, Stanislava Vrchovecká, Stanislaw Waclawek, Olha Starostina, Pavla Švermová, Richard Marsh, and Cristina Povedano Priego

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