


NEWS DECEMBER 2023

An Institution of  DVGW

TZW
Technologiezentrum
Wasser

Editorial



Dear colleagues,

This year, we held our annual TZW colloquium on 6 December with the slogan "Innovatively shaping a water living lab". It was again very well received both online and - for the first time since Covid - here in Karlsruhe.

But what does the slogan actually mean? One definition of a living lab is that practical issues are addressed in an innovation area with a large infrastructure in order to find the best possible solutions. This is exactly what we do at TZW: processes, technologies, products and services for the water sector are rethought, developed and tested here. Examples of current topics that are highly relevant in practice can be found here in this issue: the sustainable use of activated carbon in waterworks, condition-based network flushing as a strategy for supply networks and the topic of digital services, which TZW has summarised on its website. Click through!

On behalf of the entire TZW team, I would like to wish you a Merry Christmas and success, happiness and good health for 2024.

Dr. Josef Klinger



Activated carbon in drinking water treatment plants – How coconutshells can replace bituminous coal

Due to different adsorption properties activated carbons based on bituminous coal cannot be replaced by coconut shells based activated carbons in drinking water treatment plants in most cases without accepting a significant reduction in adsorption capacity. The changeover to coconut shell based activated carbon is being achieved in waterworks of Wuppertal WSW Energie & Wasser AG (Germany) by modifying the activated carbon management in connection with thermal reactivation. The process is being accompanied by TZW.

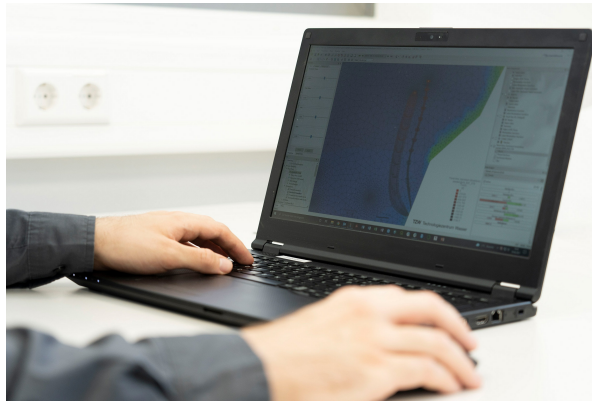
[Read more](#)



Flushing drinking water networks efficiently with condition-based network flushing

In recent years, TZW has developed the methodology of condition-based network flushing as a result of research and consultancy projects. Positive practical experience has led to this approach being taken into account in the revision of DVGW rule W 291. Condition-based flushing is already being implemented in practice at German water supply companies in Chemnitz, Leipzig and at RWW.

[Read more](#)



Digital expertise for the water supply

The digital transformation is currently taking place in all areas of public drinking water supply. Our expertise lies in solving complex questions and problems faced by water supply companies. This is done either through direct technical support for companies or as part of practical research projects. All areas, from resource protection to treatment and distribution, are taken into consideration. The digital expertise at TZW is now summarised on a separate page on the TZW website.

[Read more](#)



TZW news in brief

New video series "Drinking water and extreme weather events" launched

Drinking water supplies are preparing for changes that will increasingly be brought about by extreme weather events in the future. A new video series shows the challenges associated with this and what innovative solutions for drinking water supplies look like. The videos offer insights into the work of researchers and water suppliers who are collaborating in the BMBF research project TrinkXtrem. The first video on "Quantity and quality" is now online on [youtube](#) (in German with English subtitles)

DVGW Roadmap 2030 including TZW participation

As part of the DVGW Innovation Programme Water, future water availability and water demand are to be better understood and at the same time linked to an action agenda. To this end, DVGW is drawing up a "Roadmap 2030". Case studies in Hamburg, Stuttgart, Franconia and Magdeburg will be used to test the application of the roadmap methodology in regionally specific water supply networks. TZW is working on the Stuttgart, Franconia and Magdeburg case studies together with practice partners.
[Link to DVGW Website](#)

Poster prize SARA

The team of Prof Dr Andreas Tiehm, head of the Department of Water Microbiology at TZW, won the poster prize at the GLOWACON conference (Towards a Global Wastewater Surveillance System for Public Health). The conference took place from 16-17 November in Frankfurt am Main (Germany). The poster ([link](#)) presented the international SARA project. Further information on the project can be found on the [project website](#).

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