

Current research projects

Safe, reliable and efficient water supply, quality and hygiene in drinking, process and bathing water, innovations in technologies and analytics: IWW is one of the leading research institutes for all issues of water use. IWW carries out research projects funded by public authorities, in cooperation with and co-funded by public utilities or industrial partners, or as contract research for individual companies.

A selection of current projects:

- The river Ruhr – Drinking and bathing water for the region (BMBF Sichere Ruhr)
- Managed aquifer recharge as solution for water scarcity and droughts (EU MARSOL)
- Oestrogens in hospital wastewater (LANUV KKH-Tox)
- Occurrence and formation of perchlorate in drinking and bathing pool water (DVGW)
- Demonstration of promising technologies for the elimination of new pollutants (EU DEMEAU)
- Energetic optimization of the entire water system (BMBF ENERWA)
- Concepts for urban drainage and rainwater management (BMBF KURAS)
- Transition pathways for water infrastructure (BMBF TWIST++)
- Valuation of ecosystem services in the water sector (EU DESSIN)
- Better prediction and adaptation of the water industry to the impacts of climate change (EU BINGO)



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WATER RESEARCH

Applied innovations

You will find detailed information about our research projects and current events on our homepage.

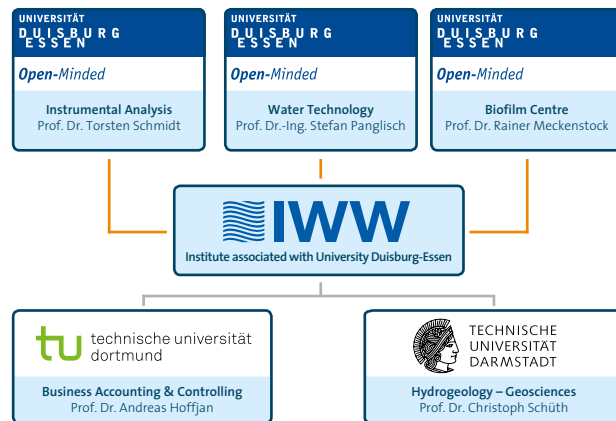
Fields of expertise

IWW has a focus on interdisciplinary water research. Our scope ranges from fundamental research to the development of practical applications.

Our main areas of expertise include

- Resource protection and water extraction
- Water treatment and disinfection
- Infrastructure of water distribution systems
- Microbiological and chemical water quality
- Organisation of supply companies
- Biofilm related problems in drinking and process water

Through its scientific directors, IWW is connected to the University Duisburg-Essen, the Technical University of Dortmund and the Technische Universität Darmstadt.



IWW has a multifunctional technical infrastructure, well equipped laboratories, large-scale proving grounds and versatile facilities for pilot plants (e.g. filters, membrane and corrosion testing units).

Research topics

The research activities of IWW focus on ten strategic research lines within four research areas:

Water Resources and Environment

- Prognosis and management of water resources
- Climate change and energy efficiency

<http://iww-online.de/en/services/water-resources-and-environment/>

Water Technology and Assets

- Novel treatment processes for drinking water
- Treatment processes for reclamation of used water
- Operation and maintenance of water supply networks
- Materials in water-bearing systems

<http://iww-online.de/en/services/water-technology-and-assets/>

Water Quality and Health

- Microbiological and chemical quality monitoring
- Water hygiene and toxicology

<http://iww-online.de/en/services/water-quality-and-health/>

Water Economics and Society

- Economic efficiency and pricing structures
- Cost and benefit analysis

<http://iww-online.de/en/services/water-economics-and-society/>



Networks and knowledge transfer

Water research is increasingly interlinked at national and international level. IWW is part of a global network of scientific institutions, industrial R&D centres, technology companies, standardisation bodies, organisations and authorities.

At European level, IWW is active at the following research networks:



Aqua Research Collaboration



Network of Reference Laboratories for Monitoring of Emerging Environmental Pollutants



Water Supply and Sanitation Technology Platform



Questor – Centre



Action Group Ecosystem Services for Europe

IWW organizes national and international conferences, e.g.:

- Water analytical seminar Mülheim (2014)
- Consequences of decreasing nitrate reduction potential in aquifers (2013)
- Heat, flood, nitrate: Challenges for the safe water supply of tomorrow (2014)
- Disinfection by-products in drinking water (2014)
- IWA Cities of the Future Conference (2015)
- Water economic conference in Mülheim (2016)