

IWW WATER CENTRE APPLIED RESEARCH AND INNOVATION

IWW is one of the leading research institutes for all issues of water use, e.g. security, reliability and efficiency in water supply; quality and hygiene in drinking water, process water and pool waters; innovative technology and analysis.

A selection of current projects

- Water quality in the Three Gorges Reservoir, China
- Climate change adaptation (BMBF dynamik, EU PREPARED)
- Prognosis of decreasing nitrate reducing capacities in aquifers (DVGW)
- By-product formation in oxidative treatment of municipal wastewaters
- Protection of drinking water supply against sabotage and attacks (BMBF STATuS, EU SecurEau)
- Intelligent Water Networks (BMBF IWaNet)
- Transitions to the Urban Water Services of Tomorrow (EU TRUST)
- Hygiene in drinking water installations (BMBF)
- Aging of pipe materials in drinking water supply (DVGW)

Quality assurance and good scientific practice:

The research programme of IWW is supervised by an international scientific advisory board. To ensure the high quality of research and other services, IWW maintains a quality management system certified according to ISO 9001.

SCIENTIFIC DIRECTORS

Prof. Dr. Hans-Curt Flemming | Prof. Dr.-Ing. Rolf Gimbel
Prof. Dr. Torsten C. Schmidt | Prof. Dr. Christoph Schüth
Prof. Dr. Andreas Hoffjan

For more detailed information on our services and current events please visit our homepage.

www.iww-online.de



CONTACT

IWW RHEINISCH-WESTFÄLISCHES INSTITUT FÜR
WASSERFORSCHUNG GEMEINNÜTZIGE GMBH
DR. DAVID SCHWESIG

Moritzstraße 26 | 45476 Mülheim an der Ruhr
Phone | +49 (0)208-4 03 03-215 | Fax -80
E-Mail | d.schwesig@iww-online.de

IWW RHEIN-MAIN

Justus-von-Liebig-Str. 10 | 64584 Biebesheim am Rhein
Phone | +49 (0)69-2 54 90-8001 | Fax -8009
E-Mail | info@iww-online.de
Web | www.iww-online.de

Affiliated Institute of the



Open-Minded



03/2011

WATER RESEARCH

EXPERTISE
AREAS OF RESEARCH
NETWORKS

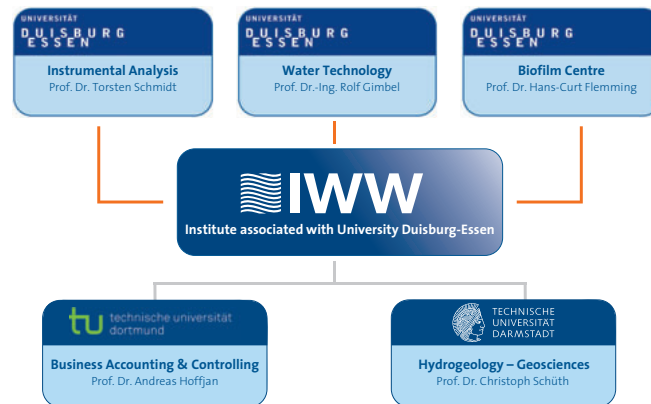


EXPERTISE

IWW has a focus on interdisciplinary water research. In cooperation with institutes of the University of Duisburg-Essen and the Technical Universities TU Darmstadt and TU Dortmund, our scope ranges from fundamental research to the development of practical applications.

Our main areas of expertise include

- Resource protection and water catchment
- Process engineering of water treatment and disinfection
- Infrastructure of water distribution systems (facilities, public and domestic networks)
- Chemical and microbiological water quality
- Organisation of supply companies (quality management, efficiency)
- Biofilm-related problems in water-bearing systems



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).

AREAS OF RESEARCH

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.

Water Resources Management

Protection of water bodies from pollution, modelling of hydro-chemical transformation and transport, scientific evaluation of protection measures.

Water Technology

Development of innovative treatment technologies, process engineering, quality improvement and optimisation, innovative concepts for instrumentation and control (neural networks).

Water Quality

Development of analytical methods, environmental fate of pollutants.

Water Distribution Networks

Corrosion prevention and hygiene in public and household distribution networks for water, rehabilitation of networks and storage tanks.

Water Hygiene

Analysis and removal of biofilms, monitoring systems for biofilms, biofouling-resistant surfaces and coatings, anti-fouling strategies, toxicity testing of chemicals.

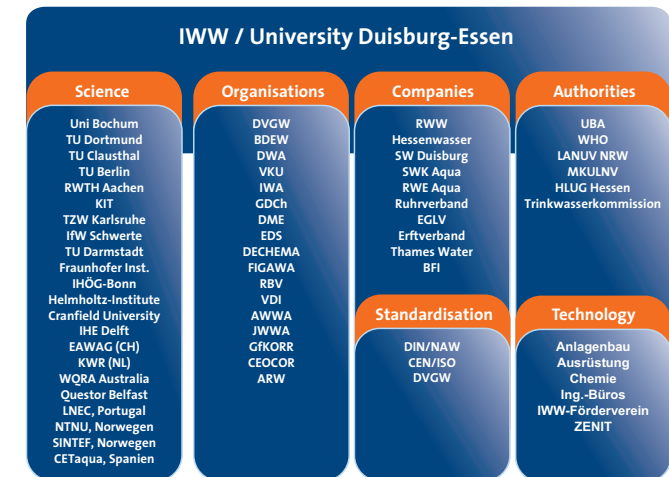
Management and Transfer of Knowledge

Measurement and control of risks and efficiency: implementation of performance indicator systems in the field of water supply, organisational development and risk management.

Research projects of IWW are funded by a number of acknowledged institutions, e.g. BMBF, BMWi, DVGW, DBU, MKULNV and LANUV NRW, AIF, EU Framework Programme, Volkswagen-Foundation, Willi-Hager-Stiftung.

NETWORKING

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. IWW is a founding member of the Aqua Research Collaboration ARC, a network of European water research institutes (www.arc-online.eu).



IWW organizes national and international conferences, e.g.

- Pharmaceuticals in drinking water (2006)
- Water Status Monitoring under the WFD, Lille (2007, 2010)
- Operation and Maintenance of water distribution systems (2009)
- Water Contamination International (2010, 2012)
- Oxidative processes in water treatment (2010)
- Water quality in drinking water installations
- Strategic Asset Management of Water and Wastewater Infrastructure (LESAM 2011)