

WATER QUALITY MANAGEMENT EXPERTS

Water is an essential resource. Especially in arid areas water resources are dramatically overexploited. Smart and efficient concepts are needed to manage these resources to the greatest possible benefit for the human society.

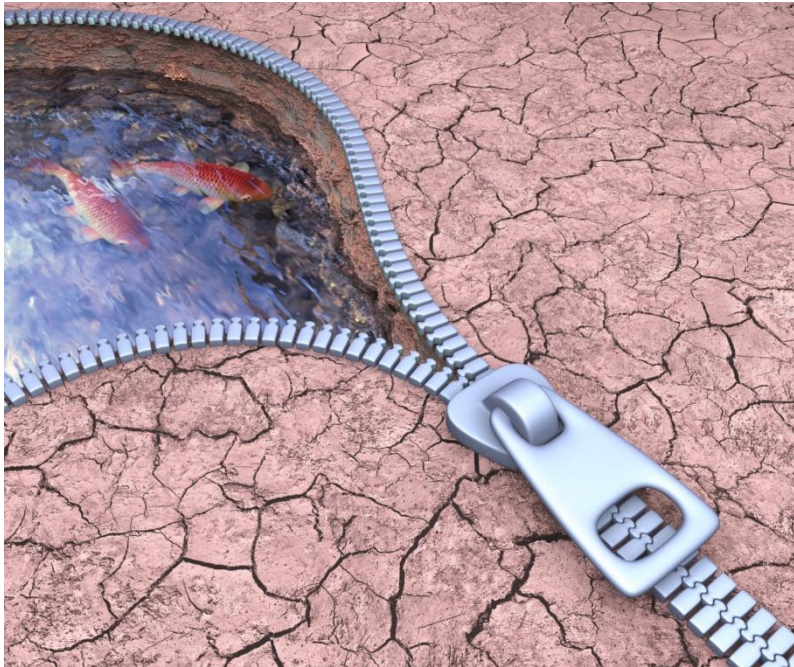
***Water QME** provides specific expertise for upcoming challenges related to water management issues. Our top senior experts deliver their specific advice for design review and for all kinds of dispute resolution as arbitration and adjudication. Moreover they offer a wide range of teaching and training opportunities.*

Please find enclosed a short overview about our fields of expertise, ranging from the management of water resources, groundwater exploration and groundwater contamination to sewage and stormwater management. Feel free to ask for the Cvs of a specific expert if needed.

WATER QUALITY MANAGEMENT EXPERTS

*PROVIDING SENIOR ENGINEERING EXPERTISE ON WATER QUALITY ISSUES
RELATED TO SUSTAINABLE MANAGEMENT OF WATER RESOURCES*





Management of Water Resources

- Water Resources and Management in semi-arid and arid regions
- Hydrogeology / hydro-ecological problems in urban areas
- Implications of Climate Change on Groundwater Flow Regime
- Delineation and Implementation of groundwater protection areas
- Strategies to counteract seawater intrusion
- Modelling and prognosis
- Development of Guidelines for Master Planning
- Lectures and Training Courses

OUR EXPERTS



Prof. Dr. Klaus-Dieter Balke is a professor for hydrogeology, experienced in the fields of Hydrogeology, Hydrochemistry, Well Construction and Groundwater Protection. He has been active as a guest professor and consultant in Argentina, Bangladesh, Brazil, China, Egypt, Greece, Mexico, Paraguay, Pakistan, Philippines, Tunisia, Uruguay, Vietnam and Yemen.



Prof. Dr. Rausch is a senior expert for hydrogeology with worldwide expertise, mainly for hydrogeology and groundwater resources in arid regions. He has been a teacher and researcher at universities for more than 20 years.



Groundwater Exploration

- Well Design and Well Diagnosis
- Geohydraulic testing, aquifer diagnosis
- Long Term Monitoring
- Innovative tools for groundwater exploration and investigation (quantity and quality)
- Hydrochemical and microbial investigations of groundwater aquifers
- Long-term yield determinations and aquifer impact analyses

OUR EXPERTS



Peter Forestier is a senior expert for geology and hydrogeology with a wide international experience, inter alia in Saudi Arabia, Oman, Jordan, Qatar. His consultancy firm ghc-Forestier provides interdisciplinary services in the scope of environment, groundwater, and energy and provides a wide range of geoscientific expertise.



Gernot Karch is a specialized German expert for the performance and evaluation of groundwater monitoring, hydraulic testing and well diagnosis. He is experienced in the application of innovative tools for groundwater exploration and investigation (quantity and quality).



Groundwater Hydrochemistry and Contamination

- Development of concepts to prevent groundwater contamination (vulnerability mapping, risk analysis)
- Isotope geochemistry, GC-Fingerprinting, isotope fingerprinting as forensic methods to delineate contaminant plumes, investigate microbial degradation processes, find contamination sources and assess their time of release
- Hydrogeological and environmental characterization design and site conceptual model implementation
- Design and optimization of groundwater remediation measures (groundwater flow and transport modelling, reactive transport, biodegradation)
- Masterplans for management of groundwater contamination

OUR EXPERTS



Dr. Thomas Ertel is a senior project manager specialized on hydrogeology, groundwater contamination and brownfield redevelopment. As a project manager he was led various EU-funded projects on groundwater management. He is managing Director of the cluster of engineering excellence bw-engineers.



As senior petroleum geochemist **Dr. Hossein Alimi** is an expert on forensic methods and fingerprinting of hydrocarbon fuel contaminants with multiple experience in Germany, France, Italy, Austria and Switzerland.



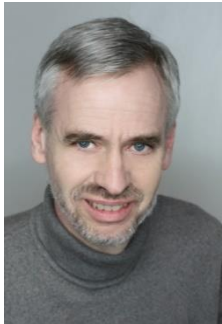
Prof. Dr. Luca Alberti is a senior Hydrogeologist Researcher at Politecnico di Milan. His specialties are: forensic methods and isotopic fingerprinting, groundwater and contaminant transport modeling, contaminated sites remediation, water resources management and seawater intrusion.



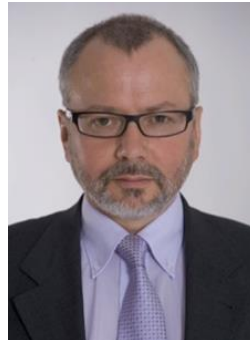
Sewage networks and wastewater treatment plants

- Design and automation of industrial wastewater treatment plants, optimization of processes
- Community sanitary engineering
- Treatment of effluent part streams
- Sewage network design
- Hydrodynamic network calculation

OUR EXPERTS



Prof. Dr. Peter Baumann is a senior expert for design and automation of wastewater treatment plant, working inter alia in Saudi Arabia. Currently he is teaching as a professor for water management at Stuttgart's university of applied sciences.



Alfred Helble is an internationally experienced senior expert for design and optimization of municipal and industrial wastewater treatment plants. He did numerous concept studies and large scale applications for efficiency improvement, capacity extension, advanced treatment and effluent reuse of water and wastewater treatment plants



Dr. Dirk Schönberger is a senior expert and manager for international projects and institutional consulting in the water sector. He has been active as an organizational consultant for irrigation, drinking water, sewage and wastewater management projects in Saudi Arabia, Jordan, Abu Dhabi.



Stormwater Management and Water Re-Use

- stormwater management
- flood control and drainage systems
- Hydrodynamic network calculation
- reuse of sewage and effluent

OUR EXPERTS



As a senior expert for sewage and stormwater drainage, **Thomas Brendt** has been active in numerous community sanitary engineering projects including sewer systems design and stormwater disposal in Germany, Saudi Arabia, Pakistan.



Dr. Bassam Hasbini has over 26 years experience in water resource projects. As hydraulic modeler he was involved in major water projects in USA, UAE, Egypt, Oman, Bahrain, Bangladesh and other countries. He was a lecturer in UAE University and delivered training courses in several countries in the Middle East and SE Asia.



Prof. Dr. Peter Werner as a scientific expert, international consultant, author of guidelines and former Director of the UAEU National Water Center is specialized on microbial water quality, water and wastewater treatment and artificial groundwater recharge.