



SKI ENGINEERING CONSULTANCY

STRUCTURE. COMPETENCE. IDEAS.

SKI has continuously expanded since its foundation in 1999 and has an established presence in the "hydraulic engineering scene" and beyond. We know what matters when it comes to sustainable and environment-oriented solutions for river engineering, hydraulics, flood protection, hydraulic engineering and infrastructure.

Our engineering services range from concept studies and hydraulic calculations to detailed planning, including structural design and construction supervision. For about 20 years SKI with its offices in Munich and recently Landshut has been a reliable partner for municipalities, local authorities, federal waterway authorities, the water and wastewater management sector, the infrastructure sector, as well as for energy producers and landfill operators at home and abroad.

Our clients appreciate our fast response: To understand at a glance what is important and decide on the critical path - this makes us capable of acting effectively in any situation. Our clients and business partners benefit from our company philosophy of open communication and close cooperation with all project stakeholders: Thus ensuring that our planning services are provided economically, on time and at the highest level of quality.

Would you like more information about engineering services?

We will be happy to assist you!

Contact us

We consider ourselves a staff-orientated company with a well-established team of highly qualified and specialized civil engineers, environmental engineers and draftsman. As a forward-looking employer, we value the goal orientated continual professional development of our workforce. That is why our employees are provided with the necessary resources to develop and enhance their individual talents. We offer our employees a flexible, fair, but also focussed work environment that allows each team member a high level of autonomy and personal responsibility. Our success lies in identifying, enhancing and applying the strengths and different abilities of each individual.



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THE SKI MANAGEMENT TEAM



DR.-ING. MICHAEL SPANNRING

1993 Graduation as civil engineer
1993 – 1996 Scientific assistant at the Chair of Hydraulic Engineering and Water Management at the TU Munich
1996 – 1999 Scientific associate as a project engineer of the research project „Changes of the River Bed in a Groyne Stretch“.
1999 PhD
 Since 1999 SKI Engineering Consultancy (founding member)
Since 2000 Consulting engineer in the Bavarian Chamber of Civil Engineers
Since 2012 Member of the Association of Friends of Civil Engineering at the TU Munich



DR.-ING. FRANK KLEIST

1993 Graduation as civil engineer
1993 – 1999 Scientific assistant at the Chair of Hydraulic Engineering and Water Management at the TU Munich
1999 PhD
Since 1999 SKI Engineering Consultancy (founding member)
Since 2000 External expert for hydraulic engineering at KfW
Since 2002 Consulting engineer in the Bavarian Chamber of Civil Engineers
Since 2002 Member of the German Association for Water, Wastewater and Waste (DWA) Technical Committee WW-7 Sealing Systems in Hydraulic Engineering, Seals in Dykes, Internal and Subsurface sealing elements (chairman)
Since 2003 Adjuration as technical expert for hydraulic engineering by the Chamber of Industry and Commerce in Bavaria



DR.-ING. HARALD WILDNER

1993 Graduation as civil engineer
1993 – 1996 Experience in structural engineering
1996 – 2001 Scientific assistant at the Chair of Hydraulic Engineering and Water Management at the TU Munich
Since 2001 SKI Engineering Consultancy (equal partner)
Since 2002 Consulting engineer in the Bavarian Chamber of Civil Engineers
2002 PhD
2002 – 2015 Member of the German Association for Water, Wastewater and Waste (DWA) Committee of Experts WW-4 Dams and River Weirs
Since 2005 Private expert in watermanagement (LfU)
Since 2011 Member of the DWA working group WW-4.7 Design Concept with Partial Safety Factors for Dams

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MAIN FIELDS OF ACTIVITY SERVICES



SERVICES

- Concept and feasibility studies
- Project management
- Numerical models
 - >> Precipitation-runoff
 - >> Basin management optimization
 - >> 1D and 2D flow simulation
 - >> 1D sediment transport simulation
 - >> Seepage calculation (2D and 3D/ steady, unsteady)
 - >> Structural design (FEA/FEM)
- Design
 - >> Data collection
 - >> Concept design
 - >> Preliminary design
 - >> Detailed design
 - >> Structural analysis, static and geohydraulic stability

- Tender documentation
- Tender evaluation
- Contract award assistance
- Construction supervision, site management
- Construction health and safety management
- Change order management
- Quality management of construction works
- Technical documentation



SERVICES IN COOPERATION WITH SUBCONTRACTORS

- Groundwater modelling
- Topographic and bathymetric surveying
- Soil investigation
- Environmental impact assessment
- Urban planning
- Technical equipment planning

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WATER RESOURCES MANAGEMENT

- Precipitation-runoff modelling
- Design and management of storage basins
- Control of dams and flood retention basins
- Cost-benefit analysis and value analysis



HYDRAULICS / RIVER ENGINEERING

- Determination of flooded areas
- Hydrostatic and hydrodynamic calculations
- Bed development predictions
- Stabilisation of the river bed
- Torrent control constructions



FLOOD PROTECTION

- Flood prevention
- Flood protection (dykes, rehabilitation of dykes, walls, basins, flood channels, mobile floodprotection, drainage)
- Disaster prevention management
- Flash flood risk management



HYDRAULIC ENGINEERING

- Weirs
- Dams
- Hydroelectric powerplants
- Flood retention basins
- Control structures and equipment
- Pump stations
- Rehabilitation of existing structures



GEOTECHNICAL ENGINEERING

- Grout injection technique
- Sealing for hydraulic constructions
- Underground sealing
- Excavations



INFRASTRUCTURE

- Road and bridge construction
- Sewer construction
- Cable construction

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