

Curriculum Vitae

Proposed Position	: Project director, WASH expert
Name of Firm	: Skat, St Gallen, Switzerland
Name of Staff	: Florian KLINGEL
Profession	: Rural and Environmental Engineer, EPFL
Date of Birth	: 31.05.1974
Years with Firm	: From 01.01.2011
Nationality	: German

KEY COMPETENCIES

Florian Klingel's professional background is rural and environmental engineering. He has more than 16 years of experience in projects of water supply, environmental sanitation and water resources management in developing countries. He has worked abroad for 6 years, mainly in Vietnam, the Philippines, Nicaragua, Honduras, Peru, Senegal, Kosovo, Moldova and Tajikistan.

He has been involved as project manager or project officer in development, research and infrastructure projects, and carried out activities for project management, project cycle management, technical design, construction supervision, backstopping, knowledge management, networking, capacity development, policy development, evaluation, coordination of large project consortiums and scientific research.

His thematic specialities are water supply, sanitation and hygiene in general, with particular strengths rural water supply and community-based operation, sanitation (e.g. ecological sanitation) and integrated water resources management

EDUCATION

1997-2001	M.Sc. Rural and Environmental Engineering , Swiss Federal Institute of Technology Lausanne (EPFL)
1995-1997	Rural and Environmental Engineering, University of Rostock, Germany

LANGUAGES:

	Speaking	Reading	Writing
German	mother tongue	mother tongue	mother tongue
English	excellent	excellent	excellent
French	excellent	excellent	excellent
Spanish	good	good	good
Vietnamese	basic	basic	basic

COUNTRY EXPERIENCE

Vietnam (56 months combined); Nicaragua (18 months); Senegal (3 months); Peru (3 months), Frequent missions to Moldova, Kosovo, Tajikistan, Philippines, Thailand, India, Nepal, Bangladesh, South-Africa, Honduras

EMPLOYMENT RECORD AND PROFESSIONAL EXPERIENCE

Skat Consulting Ltd., Switzerland

Project Manager and Water and Sanitation Specialist (Switzerland, missions worldwide) 2011 - today

Project Director and Thematic Backstopper in the Swiss Water Supply and Sanitation Project, ApaSan, Phase 3 (Moldova) 2015- today

The SDC and ADA financed Water and Sanitation Project Phase III (ApaSan) in the Republic of Moldova supports the Moldovan water sector institutions in better responding to the needs of the population for safe and sustainable water and sanitation services. The projects support national financing institutions to better monitor investments and assist project implementers for better project quality, works on the institutionalisation of technical assistance to small operators and foster the innovation capacity in the sector. Responsible for overall administration of the mandate, management of the project team (10 staff in Moldova) and the advisory group (4 staff in St. Gallen) as well as technical inputs on water supply and environmental sanitation, strategic development and implementation (Skat, SDC/ADA).

Backstopper in the Rural Water Supply and Sanitation Project, Ferghana Valley, RWSP-FV (Tajikistan) 2014- today

The SDC financed RWSP-FV aims to improve coverage with water supply and sanitation systems in rural areas of the Tajik part of the Ferghana Valley and to introduce community based management for water and sanitation systems. Skat provides technical support to the local implementing team on sanitation, Integrated Water Resources Management and other issues. Responsible for support on sanitation (Skat and International Secretariat for Water/SDC).

Water and Environmental Sanitation Specialist in the "SDC Backstopping Mandate in Water and Sanitation" (Switzerland) 2011-today

Provision of support services and assistance to SDC's Water Initiatives Division (Global Cooperation) in knowledge management and sectorial advice including sector trends scanning and documentation, development of themes and new concepts (e.g. household centred approach, supply chains, cost-benefit analysis, sustainability assessment), analysis and capitalisation of relevant experiences and best practices, (inter)national knowledge sharing and network facilitation (e.g. AGUASAN group, SDC RésEau, Community Management Working Group, WSP, WWC), publishing of validated knowledge products (e.g. water policy and position papers, factsheets, guidelines to mainstream new concepts, approaches and principles, quarterly e-newsletter) as well as provision of advisory services (question & answer service, policy advice, follow-up) to SDC staff, projects and partners. (Skat, SDC).

Backstopper in the Mandate for Backstopping services for the local implementing partners of the Rural Water and Sanitation Support Programme - RWSSP, Phase V (Kosovo) 2014-today

The SDC financed RWSSP aims at increasing access to water supply and sanitation in rural areas of in Kosovo through the implementation of water supply and sewerage systems in rural communities and to the improvement of operation and maintenance through institutional strengthening of the seven regional water companies in Kosovo. Skat's Backstopping Mandate provides technical support the implementing consortium Dorsch/CDI and support to the Swiss Cooperation Office in steering of the programme, reporting and monitoring. Responsible for backstopping (Skat/SDC).

Project Manager in the project for Operational Regional Direction of the Water and Sanitation Programs of SDC in Central America 2012-today

The project provides the expert for the position of the Operational Regional Director based in Central America and targeted backstopping support for SDCs water and sanitation programmes in Nicaragua, Honduras and on regional level. Responsible for management of the project and backstopping related to technical issues and project cycle management (Skat/SDC).

*Project Manager in the Swiss Water Supply and Sanitation Project
ApaSan Project Phase 2, (Moldova)* 2011-2015

The SDC and ADA financed Water and Sanitation Project (ApaSan) in the Republic of Moldova aims at scaling-up of replicable models for decentralized rural water supply and sanitation services delivery and management in rural areas and small towns through empowerment and capacity building at all levels, WES services delivery (water supply, ecosan, wastewater treatment) and policy dialogue. Responsible for management of the project team (10 staff in Moldova) and the advisory group (4 staff in St. Gallen) as well as technical inputs on water supply and environmental sanitation, strategic development and implementation (Skat, SDC/ADA).

*Project Manager in the Project to Develop Secondary Legislation for
the new Water Law in Moldova* 2012-2014

The project implements SDC support to the Ministry of Environment in Moldova to establish secondary legislation for the new Water Law in Moldova. Responsible for project management (Skat/SDC).

*Main Facilitator of the Mid-term Evaluation of the SDC AGUASAN
Programmes in Honduras, Nicaragua and at Regional Level* 2014

The SDC financed AGUASAN programmes in Honduras and Nicaragua support local and national governments for the implementation of water and sanitation infrastructure, hygiene education as well as institutional strengthening for project implementation and administering services. The regional programme supports sector institutions and initiatives at the Central American regional level. The current phase 2013-2015 of the programmes was evaluated at mid-term and options for a future programmes were analysed jointly with the SDC governance programmes in the region (Skat/SDC).

*Backstopper in the Mandate for Backstopping services for the local
implementing partners of the Rural Water and Sanitation Support
Programme - RWSSP, Phase IV (Kosovo)* 2011-2013

The SDC financed RWSSP aims at increasing access to water supply and sanitation in rural areas of South-Eastern Kosovo through the implementation of water supply and sewerage systems in rural communities. Skat's Backstopping Mandate provides technical support and capacity building to the local implementing partner (on issues such as rural wastewater treatment; operation, maintenance and financing of rural sanitation system; gender; monitoring; analysis of water and sanitation coverage; reporting) and support to the Swiss Cooperation Office in steering of the programme, reporting and monitoring. Responsible for backstopping of component 1 of RWSSP (construction of water and sanitation systems for 50.000 people) (Skat/SDC).

*Water and Environmental Sanitation Specialist in the project Water,
Sanitation and Hygiene Technologies of the EU Seventh Framework
Programme (Burkina Faso, Ghana, Uganda)* 2011

With a network of European and African partners developing a Technology Assessment Framework for evaluating new technologies and their performance, identifying sustainability issues, and analysing approaches to introduction, innovation, diffusion and scaling up, as well as establishing capacities of the required capacities for the implementation of the framework in the three African Partner countries (Skat, EU)

Ruhr-University of Bochum (RUB), Faculty of Environmental and Civil Engineering, Germany

Project Coordinator and Scientific Researcher (Vietnam) 2006-2010

*Project Coordinator in the Research Project "Land Use and Climate
Change Interactions in Central Vietnam (Vietnam)* 2010

Project Coordinator in the Research Project "Land Use and Climate Change Interactions in Central Vietnam, Subproject "Water Resources Management" (funding: German Ministry for Education and Research, BMBF); conception and planning of project activities (hydrodynamic modelling of river system in Quang Nam Province, analysis of historic land use development, development of climate change adaption strategies in water resources management for Quang Nam Province); data acquisi-

tion; coordination with Vietnamese project partners.

Project Coordinator and Scientific Researcher in the Research Project IWRM-Vietnam (Vietnam)

2006-2010

Project Coordinator and Scientific Researcher in Vietnam for the "Research Project IWRM-Vietnam, Subproject for Overall Coordination of the Project Network and Development of Tools for Planning and Decision Support for IWRM" (funding: BMBF). Responsibilities included:

- Coordination of project activities in Vietnam with German partners of the project network (3 Universities, 7 Companies)
- Coordination of project activities with Vietnamese Partners (Ministry of Natural Resources and Environment, Department of Water Resources Management; Provincial Governments of the Provinces of Nam Dinh, Can Tho and Lam Dong; various scientific institutions)
- Research activities: conceptual work for development of planning and decision support tools for IWRM; field work and data acquisition; data organisation with GIS; planning and implementation of an automated surface and groundwater monitoring system
- Organizing capacity development activities for Vietnamese partner organisations (study tours, training courses, on-the-job training)
- Project management: budget planning; management of subcontractors in Vietnam and Germany; reporting to funding agency
- Policy development for Vietnamese-German research cooperation (support to the leader of the Vietnamese-German workgroup for research in the field of water and environment)

Project Coordinator and Scientific Researcher in the Research Project Local IWRM in Lam Dong (Vietnam)

2006-2010

Project Coordinator and Scientific Researcher for the "Research Project IWRM-Vietnam, Subproject for local IWRM in Lam Dong Province" (funding: BMBF). Responsibilities included:

- Coordination of all activities of the sub-project and project management (budget planning, management of subcontractors, reporting)
- Research activities at the project site, a small watershed in Lam Dong Province: investigation of water resources, water use, land use, socio-economic situation, institutional situation; development of a GIS data base on local water resources; development of a local IWRM concept and action plan
- Verification of design, construction supervision and monitoring of operation for a rural water supply system (10.000 inhabitants); participative development of protection measures for the water resources of the water supply system
- Supervision of German and Vietnamese master students

Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ) GmbH

Project Officer (Germany, missions worldwide)

2003-2006

Project Officer within the "Supra-regional Programme on Ecological Sanitation (ecosan)", based in GTZ headquarters in Eschborn, Germany (funding: German Ministry for Economic Cooperation and Development, BMZ). The programme develops and promotes strategies for establishing sustainable, recycling oriented systems in water management, sanitation and agriculture. Responsibilities included:

- Knowledge management: development and administration of diverse knowledge management tools (website www.gtz.de/ecosan, e-newsletter, on-line database for sanitation literature, CD-Rom with materials for capacity building, etc.) both for GTZ's company-wide knowledge management and for the worldwide ecosan expert networks
- Networking: liaising with numerous organizations and projects in Europe and the developing world with activities in the field of ecological sanitation for joint knowledge management, project development, lobbying and promotion activities

- Pilot project development: preparation of pilot projects for ecosan systems in Vietnam and the Philippines; preparation and preliminary design of an innovative ecological sanitation system in the main building of GTZ headquarters in Eschborn; preparation and backstopping for pilot projects in China, India, Cuba, Chile, Peru, Mali, Botswana, Namibia and Egypt
- Publications: preparation of technical and scientific publications, such as the ecosan source book with project planning guidelines, data sheets on ecological sanitation technologies and reference projects; preparation and presentation of various papers for scientific conferences
- Capacity building: development and compilation of curricula and teaching materials for capacity building on ecological sanitation; supervision and coaching of international trainees
- Policy development: contributions to the development of various policy papers and international guidelines relevant to ecological sanitation, e.g. to the Strategy Paper for the Water Sector of BMZ, the Compendium of Actions for Sanitation of the UN General Secretary Advisory Board on Water and Sanitation, the WHO Guideline for the Safe Reuse of Excreta and Greywater in Agriculture, the Think Piece for Ecological Sanitation for the 13th Meeting of the UN Commission of Sustainable Development, the technical working group for innovative sanitation systems of the German Water Association (DWA)
- Preparation of project proposals for submission to European Union, BMZ, BMBF, Asian Development Bank and other financing institutions
- Organization of events such as international scientific conferences, community workshops, technical workshops, board meetings, etc.

GKW Consult GmbH

Project Engineer

2002-2003

Project Engineer for construction supervision (Nicaragua)

2002-2003

Assistant to the project leader of the "Water Supply and Sanitation Project in the Cities of Matagalpa, Jinotega and Corinto" (funding: German Development Bank KfW, total project volume: 51 Mio US\$). Responsibilities included: construction supervision and follow-up of the commissioning of the water supply system (wells, reservoirs, pumping stations, distribution network, water catchment facilities, water treatment plant), the sewer system and the waste stabilisation ponds; inspection of components of the water supply system, the sewer system and the waste stabilisation ponds for technical approval; revision of billing and measurements; planning, design and supervision of a cement grouting campaign for stabilization and sealing of the foundation of a surface water catchment facility (GKW, KfW)

Project Engineer (Senegal)

2002

Project Engineer in the project "Treatment plants for sludge from on-site sanitation facilities for the City of Dakar" (funding: World Bank). Responsible for the feasibility study and final design, including: conception of treatment process; detailed design (process design, hydraulic dimensioning, structural design); development of the operation and maintenance scheme; definition of a monitoring and follow-up program (GKW, WB).

Swiss Federal Institute for Aquatic Science and Technology, Department Water and Sanitation in Developing Countries (EAWAG-SANDEC)

Scientific Researcher

2001-2002

Scientific Researcher (Switzerland)

2002

Research engineer at head-office, Zürich. Responsible for the development and drafting of a planning manual for faecal sludge management.

Scientific Researcher (Vietnam)

2001

Feasibility Study for Faecal Sludge Management and Treatment in Nam Dinh City as part of the "Nam Dinh Urban Development Project" (funding: Swiss Agency for Development and Cooperation, SDC). Assessment of current faecal sludge management, including sanitation system, sludge collec-

tion and disposal, market potential for treated sludge; evaluation of treatment technologies; cost analysis; evaluation of institutional options and development of improvement measures; preliminary design of a constructed wetland treatment plant

Trainer (India, Thailand)

2001

Short-term assignments at Auroville Environmental Monitoring Service, Pondicherry, India and the Asian Institute of Technology, Thailand: Training of laboratory staff for methods of helminth egg analysis in environmental samples

Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ) GmbH (Peru)

2000-2001

Researcher (master thesis) within the PROAGUA Programme of GTZ and in cooperation with the water and sewerage utility of Lambayeque, EPSEL, Peru. Responsible for the analysis of health risks from irrigation with treated effluent from waste stabilization ponds in Chiclayo.

SELECTED PUBLICATIONS

- Klingel, Florian; Diener, Stefan (2014): Guidebook for the implementation of decentralised water supply systems in Moldova, ApaSan – Swiss Water and Sanitation Project Moldova, Skat Consulting Ltd.
- Klingel, Florian; Greassidis, Sandra; Jaschinski Sylvia; Jolk, Christian; Borgmann, Andreas, Stolpe, Harro (2009): GIS als Lösungsansatz für die Entwicklung eines Planungs- und Entscheidungsunterstützungssystems für das Integrierte Wasserressourcenmanagement in Vietnam, 6. GIS-Tagung DWA, GIS in der Wasserwirtschaft, Kassel 2009
- Klingel, Florian; Stolpe, Harro; Schuster, Susann; Borgmann, Andreas; Tran, H. (2008): Estimating the Extent of Waste Water Discharge and its Environmental Impact in the Upper Dong Nai River Basin, Vietnam, IWA Conference of Sanitation Options in the Asia Pacific, 18-21 November 2008 in Hanoi, Vietnam, Proceedings
- Werner, Christine; Klingel, Florian; et al. (2004-2006): Technical data sheets for ecosan components, a series of data sheets developed by the GTZ ecosan programme.
- Werner, Christine; Klingel, Florian; et al. (2004-2006): Data sheets for ecosan projects, a series of data sheets developed by the GTZ ecosan programme.
- Werner, Christine; Klingel, Florian; Mang, Heinz-Peter (2005): Ecological Sanitation: Seine konzeptionelle Bedeutung für IWRM und seine Umsetzung in die Praxis, in: S. Neubert/ W. Scheumann/ A. van Edig / W. Huppert (Hrsg.): Integriertes Wasserressourcenmanagement (IWRM), Ein Konzept in die Praxis überführen, Nomos.
- Werner, Christine; Bracken, Patrick; Klingel, Florian; Mang, Heinz-Peter (2004): Ecological Sanitation - Principles and Technologies, Paper presented at the 4th IWA World Water Congress and Exhibition, 19-24 September 2004 Marrakech, Morocco.
- Werner, Christine; Bracken, Patrick; Klingel, Florian; Mang, Heinz-Peter (2004): Overview of world-wide ecological sanitation concepts and strategies, Paper presented at the 4th IWA World Water Congress and Exhibition, 19-24 September 2004 Marrakech, Morocco.
- Klingel, Florian; Montangero, Agnès; Koné, Doulaye; Strauss, Martin (2002): Faecal Sludge Management in Developing Countries - A Planning Manual, Publication of the Swiss Federal Institute of Aquatic Science and Technology, Department for Water and Sanitation in Developing Countries (EAWAG-SANDEC).
- Klingel, Florian; Montangero, Agnès; Strauss, Martin (2001): Nam Dinh (Vietnam) - Planning for Improved Faecal Sludge Management and Treatment, Paper presented at the Annual Conference of the Water Supply and Sewerage Association of Vietnam, Dec. 6-7, 2001.