

JÖRG-MARTIN HOHBERG

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German Citizen, born 1953 in West-Berlin ·

permanent residence in Switzerland since 1982, married with 2 children

STUDIES

Dr. sc. techn., ETH ZURICH (1992)

Federal research project on the seismic nonlinear behaviour of arch dams

Dipl.-Ing., TU BERLIN (1980)

Structural Engineering Studies with thesis on prestressed concrete LNG storage tanks

DIC MSc., IMPERIAL COLLEGE LONDON (1977)

Scholarship by Studienstiftung des Deutschen Volkes, thesis on creep & shrinkage

PROFESSIONAL EXPERIENCE

DESIGN ENGINEER, DYWIDAG AG, MUNICH / NUREMBERG (1980-1982)

Departments of Special Structures (sewage and LNG storage tanks), Bridges (Maglev Emsland), and Buildings (department store)

TEACHING & RESEARCH ASSISTANT, ETH ZURICH (1982-1991)

Institute of Structural Engineering:

- r/c & p/c limit state design, plasticity theory, earthquake engineering, man & machine induced vibrations)
- federal research project on the nonlinear seismic behaviour of concrete dams

SENIOR CONSULTANT, IUB ENGINEERING AG, BERNE (since 1991)

Department of Underground Structures:

- upgrading of Amsteg hydro-power plant (1992-1996)
- preliminary & detail design of the Lötschberg Base Tunnel (1997-2004)
- highway tunnels of N16, N5, N9 (1996-2010)
- pumped-storage hydro-power plant Limmern (2008-2011)
- refurbishment of galleries and retaining walls (2015-2018)
- general & detail design of flood relief galleries (since 2017)
- back-analysis of squeezing deformations in the Lötschberg Base Tunnel (since 2020)

IUB Quality Manager and internal auditor (1994-2010)

LEAD AUDITOR, SOCIÉTÉ GÉNÉRALE DE SURVEILLANCE SA, ZURICH (since 1996)

ISO 9001 / ISO 14001 / OHSAS 18001 certification of all kinds of entities in the construction sector such as building products, consultancies (geologists, natural hazards, surveying, engineering), building and tunnelling contractors, building installations, telecom infrastructure, highway maintenance, public road authorities, railway infrastructure and operation
Delegate to the Swiss Standardization Institute on ISO 31000 (Risk Management)

PRO-BONO ACTIVITIES

- **German Geotechnical Society DGGT**, WG Numerical Analysis (since 1996)
- Member of IABSE, ISRM, ISSMFE, ITA, Swiss NCOLD, IPMA
- **European Federation of Engineering Consultancy Associations EFCA**, TFs on Quality Management, Risk Management, Health & Safety (1994-2009)
- **International Federation of Consulting Engineers FIDIC**, Risk / Liability & Quality Committee RLC (since 2010), appointed Vice-Chair 2021-2022
- **Society of Swiss Engineers & Architects SIA**, Structural Engineering Council (since 2014) and WG on Engineering Education
- **European Federation of National Engineering Associations FEANI**, European Monitoring Committee EMC, Swiss National FEANI Committee (President 2015-2017)

RECENT PUBLICATIONS & PRESENTATIONS

- Drill & blast in high stress and at great depth (lecture series EPF Lausanne 2008-2010)
- Non-binding Guide of the European Commission to the Mobile Site Directive 92/57/EEC (2010)
- Complicated excavation altering an existing tunnel (EUROCK Lausanne 2010)
- Cavern design for the Limmern pumped-storage hydro-power plant (EUROCK Lausanne 2010)
- Modelling requirements for FEM analyses – 2D versus 3D (Salzburg 2011)
- Challenges in 3D modelling of altering existing traffic tunnels (Conf. Innsbruck 2012)
- Stability issues in altering an existing tunnel portal (Conf. Darmstadt 2012)
- Risk management as a cultural factor (SiDiR Conf. Warsaw 2012)
- Hazard scenarios and combined analysis methods of underground structures (Hamburg 2013)
- Challenges in a twin-tube motorway project incorporating an existing tunnel (WTC Geneva 2013)
- The Linth-Limmern hydro-power plant – Design and construction (WTC Geneva 2013)
- Design and verification challenges of the Limmern caverns (WTC Geneva 2013)
- Geotechnical aspects in design and construction of large caverns (ETHZ Symp. 2013)
- DGGT Recommendations AK 1.6 (Ernst & Sohn 2014)
- Numerical analysis of hydro-power caverns (Rock Mech. Symp. Vienna 2014)
- Refurbishment of 50-year-old rockfall protection galleries (CVK Graz 2014)
- Computational strategies for retaining structures in steep slopes (Z_SOIL 30y aniv. vol. 2015)
- Design issues and works preparations in altering existing structures (Cyprus Ass. Civ. Engrs 2015)
- Risk-based thinking and knowledge management in engineering organizations (IABSE 2017)
- Input-oriented ULS design of rock anchors for retaining walls (CVK Graz 2017)
- Numerical stability analysis for the rehabilitation of retaining walls (GS 2017 / TAE 2018)
- Flood protection Zurich – Geotechnical aspects of the discharge gallery Talwil (GEC 2018)
- 3D FEM analysis for the construction pit of a TBM-driven flood discharge gallery (Brno 2018)
- Variation of strength parameters for a TBM construction pit (BAW 2019)
- Limit analysis of retaining structures in steep slopes (Brno 2019)
- Partial safety factor design for flood discharge galleries (DGGT Sect. Days 2019)
- Design of two flood discharge galleries in Switzerland (TAE 2020)
- Back-analysis of squeezing rock deformations in the Lötschberg Base Tunnel (Freiberg 2020)