

Prof. Günter Blöschl
SHORT PROFESSIONAL INFO



Responsibilities

Prof. Blöschl is Head of the Institute of Hydraulic Engineering and Water Resources Management, Director of the Centre for Water Resource Systems of the Vienna University of Technology as well as Chair of the Vienna Doctoral Programme on Water Resource Systems. He is currently teaching courses on Engineering Hydrology, The Urban Water Cycle, Modelling Flow and Transport Processes, Modelling and Simulation, Integrated Water Resources Analyses, Water Resources Management and Planning, and Statistical methods for Civil Engineers.

Research Interests

- Hydrological simulation and modelling, runoff models, spatially distributed hydrological models and stochastic methods.
- Catchment hydrology including scale issues, flow and transport processes, floods and droughts, soil moisture, snow, and hydrological measurements.
- Water resources management: risk analysis, flood forecasting, uncertainty assessment, climate change impacts, hydrologic change, and socio-hydrology.
- Regional estimation, predictions in ungauged basins, geostatistical methods and Geographic Information Systems.

Projects he is currently leading or has recently finished include (a) Projects related to water resources and climate: Development of climate change adaptation strategies for water resources management in Austria, Low flows and climate change, Predictability of runoff in a changing environment, Sustainable energy supply and climate change; (b) Projects on floods: Flood estimation in Tirol, the HORA project where flood risk was mapped for 26000 km of Austrian streams (see www.hochwasserrisiko.at), the HYDRATE flash flood project funded by the EC, Regional joint probability estimation of extreme events, Development of the Kamp flood forecasting system which is currently operationally used by the state government and the hydropower operator; and an Advanced Grant of the European Research Council on Deciphering River Flood Change, (c) Projects on runoff processes: Soil Moisture Monitoring for Water Hazards Assessment, Water balance modelling for dry spells, and the Hydrology Open Air Laboratory (HOAL) in the Petzenkirchen catchment, which is a synthesis activity in the Vienna Doctoral Programme on Water Resource Systems where detailed field observations of water fluxes and water quality parameters are performed (see [HOAL](#)).

Key Facts

Günter Blöschl graduated from the Vienna University of Technology. His international experience includes appointments as a research fellow in Vancouver, Canberra and Melbourne. In 2007 he was appointed Chair of Hydrology and Water Resources Management at the Vienna University of Technology.

Günter Blöschl has published around 300 scientific articles in the area of hydrology and water resources. 120 of these articles appeared in international peer reviewed journals listed in the ISI citation index. His publications have been cited about 5000 times as per the ISI data base, and his H-index is 38. He is currently Editor of Water Resources Research, and Hydrology and Earth Systems Sciences, and Associate Editor or Editorial Board member of the Journal of Hydrology, Hydrological Processes, Hydrology Research, and the International Journal of River Basin Management.

He has received numerous honours during his career including election as a Fellow of the American Geophysical Union, the German Academy of Science and Engineering (acatech) and the International Water Academy. Recently he was awarded the Advanced Grant of the European Research Council (ERC).

Günter Blöschl sits on the Scientific Advisory Council of numerous institutions including the German Federal Institute of Hydrology (BfG), the GeoForschungsZentrum (GFZ) Potsdam and the NFP61 of the Swiss National Science Foundation. He has been the chair of the Predictions in Ungauged Basins (PUB) initiative of the International Association Hydrological Sciences whose Synthesis book he has edited (www.cambridge.org/at/knowledge/isbn/item7066117). From 2013-2015 he is the President of the [European Geosciences Union](#).