

THOMAS GRAF PH.D.

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PROFESSIONAL GOAL

To find a research/teaching faculty position in Hydrology/Hydrogeology worldwide.

EDUCATION

- Ph.D. *summa cum laude* in Hydrogeology** **2005**
Department of Geological Engineering, LAVAL UNIVERSITY QUEBEC CITY QC, CANADA
- M.Sc. (“Diplom”) in Hydrology with a minor in Soil Science and Geology** **2001**
Institute of Hydrology, ALBERT-LUDWIG-UNIVERSITY FREIBURG, GERMANY
- B.Sc. (“Vordiplom”) in Hydrology and Geology** **1997 and 1999, respectively**
Institute of Hydrology, ALBERT-LUDWIG-UNIVERSITY FREIBURG, GERMANY
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SKILLS / EXPERIENCE

- Research hydrogeologist of **fractured rock** (7 years of experience).
 - **Trilingual** (German, English, French).
 - International collaborator (established contacts to Australia, Canada, Denmark, France, Germany, USA).
 - **Consultant** in the context of high-level radioactive waste disposal (1.5 years of experience).
 - Developer of modeling software (member of the **HydroGeoSphere** developer group in Waterloo ON since 2003).
 - Numerical modeler of **coupled geoprocesses** (e.g. geothermal flow, reactive transport) using finite element method.
 - Scientific **programmer** (fortran).
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PUBLICATIONS

- Refereed articles: in preparation [3], in review [2], in print [6]
 - Non-refereed publications: book chapters [1], theses [2], technical reports [1]
 - Conference contributions: articles [1], oral presentations [14], posters [2]
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TEACHING EXPERIENCE

- Courses for graduate students: Scientific Programming [1] and Contaminant Hydrogeology [2]
 - Courses for undergraduate students: Environmental Hydrogeology [2]
 - Assisted courses: Modeling in Hydrogeology [2] and Modeling Flow and Transport in Fractured Media [1]
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SELECTED WORK EXPERIENCE

- Research Associate** **since Jun. 2007**
Center of Geosciences, GEORG-AUGUST-UNIVERSITY GÖTTINGEN, GERMANY
Numerical groundwater modeling in fractured rock.
Assisting/teaching courses and co-supervising Ph.D. and Master’s students.
Reviewing manuscripts for scientific journals.
- Postdoctoral Fellow** **Jan. 2006 - Apr. 2007**
Department of Geological Engineering, LAVAL UNIVERSITY QUEBEC CITY QC, CANADA
Consulting service for Ontario Power Generation within the nuclear waste management program.
Completing numerical large-scale simulations at a potential site for radioactive waste disposal in Finland.
- Visiting Scientist** **Feb. - Mar. 2005**
FLINDERS UNIVERSITY ADELAIDE SA, AUSTRALIA
Co-workers: Craig T. Simmons, Douglas Weatherill, Neville Robinson.