

KHALED M. SHAMS

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FIELDS OF INTEREST

ENVIRONMENTAL POLLUTION, ENVIRONMENTAL MODELLING, HYDRO-GEOCHEMISTRY, SUSTAINABLE DEVELOPMENT, GEO-ECOLOGY, WASTE MANAGEMENT, GIS, CLIMATIC CHANGES

EDUCATION

- Ph.D., Environmental Pollution and Remediation**, Department of Geography and Geology, University of Salzburg, Austria. *Thesis title: "Chromium contamination from tannery wastes in the soils of Hazaribagh Area in Dhaka City, Bangladesh, and aspects of its phytoremediation"*. 2004 – 2008
- M.Sc., Tropical Hydrogeology**, Institute for Geology and Paleontology, University of Tuebingen, Germany, 2002. *Thesis Title: "Development of a Groundwater Model for the Environment of the Well Oberrieder within the Valley of the Danube River, Near Sigmaringen"*. 2000 – 2002
- International Advanced Studies Certificate**, Hydrogeology and Engineering Geology of Tropical and Subtropical Regions. Institute for Geology and Palaeontology, University of Tuebingen, Germany. 1998 – 1999
- M.Sc., Hydrogeochemistry**, Dhaka University, Department of Geology, Bangladesh. *Thesis title: Aquifer Condition and Groundwater Chemistry of Thakurgaon District, North Bangladesh*. 1994 – 1996

SCIENTIFIC EXPERIENCE

- LABORATORY ASSISTANT – AUSTRIAN AGENCY FOR HEALTH AND FOOD SAFETY, VIENNA** Jul. 2004 – Aug. 2004
▲ Job responsibilities included analysis of soil (from agricultural land) for chromium contamination (hexavalent chromium) and other laboratory activities.
- GEOLOGIST – EGNER AND PARTNER, GERMANY** (part time) Jul. 2000 – Feb. 2004
▲ The job responsibility included field works, mainly investigation of waste sites, drilling, collection of samples, soil gas analysis, construction of monitoring wells and their regular monitoring, pumping tests and evaluation of the aquifer conditions, report writing and other related works.
- HYDROGEOLOGIST/GEOLOGIST – NORTH-EAST MINOR IRRIGATION PROJECT, AS PROJECT, GEO PROBE, BANGLADESH** (part time as well as full time) Jan 1995 – Jul. 1998
▲ The job responsibility included hydrogeological data collection, field works, chemical analysis, work for well construction, delineating aquifer boundaries, well design, report writing and other related works.

AWARDS

- **SPECIAL "MERIT MEDAL"** for active participation and performance (April 10-22, 2006, Passau, Germany), in "Osterseminar" titled "Bildung and Ausbildung in der Globalisierten Welt".
- **EINE-WELT-STIPENDIUM (ONE-WORLD-SCHOLARSHIP)** (2004–2008) from Afro-Asiatische Institute, Salzburg, Austria, for the Doctoral Work in the University of Salzburg.
- **POSTGRADUATE SCHOLARSHIP FOR DEVELOPING COUNTRIES** (1998-1999) from German Academic Exchange Service (DAAD).
- **DHAKA UNIVERSITY MERIT SCHOLARSHIP** (1993 – 1994) for Master and Master's thesis.
- **DHAKA UNIVERSITY MERIT SCHOLARSHIP** (1990 - 1992) from Honors 1st to Honors 3rd year.

PUBLICATIONS

- Hassan, M. Q., Shams, K. M., Shamsad, S.Z.K.M., & Rahman, M., (1998): Quality of Groundwater in Thakurgaon District of Bangladesh. – Bangladesh Journal of Geology, vol.17, 1998.
- Shams K.M., Tichy G., Sager M., Peer T., Bashar A., Jozic M.: Assessment of Chromium Distribution in the Subsurface from Tannery Wastes in Southwestern Part of Dhaka City, Bangladesh. (in preparation)
- Shams K.M., Tichy G., Fischer A., Sager M., Bashar A.: Phytoremediation of Chromium Contaminated Soil Using Common Plants *Urtica dioica*, *Brassica napus* and *Zea mays*. (in preparation)

TECHNICAL SKILLS

- ▲ Extensive experience in laboratory work and up-to-date knowledge of AAS, ICP-MS and analytical instrumentation. Knowledge of Good Laboratory Practice.
- ▲ Solid computer skills: General Packages: MS Office 2003, Corel Draw 12, Surfer; Modelling Software: Processing Modflow 5, Visual Modflow 3.0; CAD Software: AutoCAD 2006, Autodesk Civil 3D 2007; GIS Software: Arcview 3.1, ArcGIS 9.1; Programming Knowledge: Java 2 SDK 1.5; Statistical Software: SPSS 15.0; Digital Imaging Software: Photoshop 7.0; Others: Eva v 3.0
- ▲ Language proficiency: English (fluent), German (good), Bengali (mother tongue).