

RESUME

Abdulaziz M. Al-Shaibani, Ph.D.

Earth Sciences Department
King Fahd University of Petroleum and Minerals
Dhahran, Saudi Arabia

Mailing address:
Box 701 KFUPM,
Dhahran 31261
Saudi Arabia
Phone: +9663-860-4002, **fax:** +9663-860-2595
e-mail: shaibani@kfupm.edu.sa

Professional and Teaching Experience

1999 - Present Assistant professor, Earth Sciences Department, KFUPM.

Teaching the following courses:

Advanced Hydrogeology, undergraduate hydrogeology, Environmental geology, Seminar in Geology, Senior Projects

Coordinator and instructor of a short course on:

Basic Hydrogeology for the Junior staff, and senior non-hydrogeologists at the Groundwater Division, Saudi Aramco.

Coordinator, instructor of two 5-short course programs on:

Fundamental Concepts of Earth Sciences for non-Earth Scientists at the Expec Computer Center, Saudi Aramco.

Coordinator, instructor of a short course on:

Introduction to Groundwater Modeling
For the hydrology section at the Saudi Geological Survey

Coordinator of several other short courses on Fundamentals of Earth sciences

Chairman of the following committees:

- Promotion committee (Department)
- Publications committee (Department)
- Computer Utilizations Committee (Department)
- Graduate committee (Department)
- Short courses committee (College of Sciences)
- Contact With Industry committee (College)
- Space Utilization Committee (College)
- Students Committee (College)
- Open Day Committee (College)
- Public Relations and Publications Committee, First Saudi Science Conference (University)
- Support services Committee, International Book Fair (U.)

Member of the following Standing committees:

- Short courses
- Students Affairs
- Admissions and Academic standing

- Bids and Tenders
- Faculty Search (department)
- Seminar Organizing Committee (department)
- Computer Utilization Committee (department)
- Committee on updating M.S. program (department)
- First Saudi Science Conference organizing committee
- Book Fair organizing committee

In addition to several other ad hoc committees

Summer 2001 Visiting researcher, University of Cardiff, UK.
 Worked on a project on "Lava Fields as potential groundwater sources, western Saudi Arabia" supported by British Council and British Aerospace.

1991- '98 Graduate Assistant on scholarship at Texas A&M U.

1988- '91 Teaching Assistant, Earth Sciences Department, KFUPM.

1987- 1988 Geophysicist, Saudi Aramco.

Education

1995-1998 Texas A&M University, College Station, Texas
 Ph.D., Geology (Hydrogeology)
 Dissertation Title: Natural Recharge to the High Plains Aquifer in Dawson County, Texas.

1991-1994 Texas A&M University, College Station, Texas
 M.S., Geophysics.
 Thesis Title: Variation of Seismic-Wave Velocities in Westerly Granite Under Stress.

1983–1987 King Fahd University of Petroleum and Minerals, Dhahran, SA.
 B.S. with honors, Geophysics.

Advanced Courses

- Contaminant Hydrogeology, Texas A&M University
- Water Resources Planning and Management, TAMU.
- Computational Mathematics in Subsurface Flow, TAMU
- Applied Groundwater Modeling, TAMU
- Modeling Non-Point Sources using GIS, TAMU.
- Soil Physics , TAMU
- Advanced Hydrogeology, KFUPM
- Groundwater Flow, KFUPM
- Reservoir Rock Properties, TAMU.

Short Courses and Workshops

- Exploration, Development, and Management of Groundwater Resources, KFUPM.
 - Hydrogeology Field Camp (one month), 1997. University of Minnesota.
 - Reservoir Characterization: Introduction to Multi-Disciplinary Approach into Geostatistical Modeling, KFUPM & Arabian Oil Company, 1999.
 - Practical Modeling of Saltwater Intrusion: variable-density Flow& solute-transport simulation using the USGS SUTRA code, 2001
 - GIS Applications in Earth Sciences, 2003. Arabian Gulf University, Bahrain.
 - Environmental Impact Assessment, 2004. Air &Waste Management Association, Bahrain.
 - Soil and Groundwater Pollution Workshop, Investigation, Risk Assessment,
-

	and Remediation. Center for Groundwater Studies, Australia. Nov. 2004.
Professional Consulting	<ul style="list-style-type: none"> ▪ 5/2004 – 5/2005: Part time consultant, Ministry of Water and Electricity ▪ Summer 1999: Groundwater Division, Saudi Aramco ▪ Summer 2002: Saudi Geophysical and Environmental Consulting Office, AlKhobar
Research Interests	<ul style="list-style-type: none"> ▪ Groundwater Flow and Mass Transport Modeling ▪ Groundwater Vulnerability Studies ▪ Environmental Hydrogeology, ▪ Water Resources Evaluation in Saudi Arabia.
Computer Skills	<ul style="list-style-type: none"> ▪ Programming in FORTRAN, Visual Basic. ▪ PC and Apple Macintosh operating systems. ▪ Familiar with: MS Office, Corel Draw, Canvas, MODFLOW, Visual MODFLOW, SUTRA, GMS, SURFER, MODPATH, MT3D, GRASS, and others.
Professional Affiliations	<ul style="list-style-type: none"> ▪ Member, IAHS (International Association of Hydrological sciences) ▪ Member, SSES (Saudi Society of Earth Scientists) ▪ Member, DGS (Dhahran Geological Society, chapter of AAPG) ▪ Member, WSTA (Water Sciences and Technology Association)
Research involvement	<ol style="list-style-type: none"> 1. Prediction of Sanding Tendency in Pre-Khuff Gas Wells, KFUPM-RI/Saudi Aramco 2. Post-Audit of Jilh Aquifer in Hawtah Field, Saudi Aramco 3. Influence of waste-water projects and Poultry Farms on Groundwater quality in wadi Al-Arj, Taif, KFUPM-SABIC 4. Web-based database on water resources of Saudi Arabia, KFUPM-RI. 5. Environmental and Social impact Assessment for seismic operations in the CV3 concession area in Rub AlKhali Desert of Saudi Arabia. RI contract CEW2283. 6. Environmental Impact Assessment for Seismic Operations in SSG Contract Area in Rub Al-Khali Desert of Saudi Arabia. RI contract CEW2289. 7. Environmental Baseline and Impact Assessment for Seismic Operations in Block C of Rub Al-Khali Desert of Saudi Arabia. RI contract CEW2290. 8. Environmental Impact Assessment - Contract Area A in the Northern Part of Rub Al-Khali - Stage 1: 2D and 3D Seismic Operations. RI contract CEW2291. 9. Lava fields as potential groundwater sources in western Saudi Arabia. 10. Hydrogeological investigation and groundwater modeling of the basaltic aquifer of northern Harrat Rahat, Al-Madinah Al-Munawwarah. MWE. 11. Investigation of the Current Landslide and the Potential Rock Slope Failures along Dilaa Descent, Abha Area. MOT. 12. Hydrogeological and water resources management of some Wadis in Makkah Province. MWE.
Other Activities	<ul style="list-style-type: none"> ▪ Member of the Agricultural and Environmental Group, KACST, 2003-2005. ▪ Founded "Friends of the Environment" Group, a university-wide activity under the Science Club, KFUPM. ▪ Established a student section of the "Environment Technology and Management Association", the Saudi Arabian section of the Air&Waste Management Association.

**Publication and
conference
presentations**

- **A. Al-Shaibani**, 2004. "Influence of Wastewater Projects and Poultry Farms on Groundwater Quality in Wadi Al-Arj, Taif" *Final Report, Project SABIC 2001-7*, 8/2004, pp. 154.
- **Al-Shaibani, A.** and M. Shareef, "Hydrogeology Chapter of the final report on *EIA of Seismic operations in concession area CV3, Rub Al-Khali*" RI project CEW-2283, June, 2004.
- **Al-Shaibani, A.** and M. Shareef, "Hydrogeology Chapter of the final report on *EIA of Seismic Operations in SSG Contract Area in Rub Al-Khali Desert of Saudi Arabia*. RI project CEW-2289. Sept, 2004.
- **Al-Shaibani, A.**, M. J. Raza, M. Hariri, and M. Makkawi. 2004. "Groundwater Quality Evaluation and Vulnerability Assessment of the Alluvium Aquifer in Wadi Al-Arj, Taif Using DRASTIC Method". *2nd Saudi Science Conference, KAAU, Jeddah, March, 2004*.
- **Al-Shaibani, A.** and Md. J. Raza, 2004. "Influence of Waste Water Projects on Groundwater Quality in a Shallow Aquifer", *proceedings, 4th Specialty Conference on Environmental Progress in the Petroleum and Petrochemical Industries, Bahrain, Feb, 2004*.
- **Al-Shaibani, A.** 2003. Saudi WaterNet: A Searchable Web-based Database on Water Resources of Saudi Arabia. *Proceedings, 6th gulf water conference in concurrence with 2nd symposium on water use conversation in Saudi Arabia, March 2003, Riyadh*.
- **Al-Shaibani, A.** 2002. Lava Fields as potential groundwater resources in western Saudi Arabia- A case study of northern Harrat Rahat. *Proceedings, the international conference on water resources management in arid regions, Kuwait Institute for Scientific Research, Kuwait*.
- M. Hariri, **A. Al-Shaibani** and A. Qahwash, 2001. Possible factors affecting the Students learning at KFUPM, Results of students' random survey. Presented at Student Learning at KFUPM: Challenges and Opportunities Symposium. March 2001.
- **Al-Shaibani, A.** 2001. Estimating Direct Recharge from Precipitation and Irrigation to Shallow Water Table Aquifers Using Water Budget Method. *Proceedings of First Saudi Science Conference, Dhahran*.
- **Al-Shaibani, A.** 1999. Postaudit of Jilh aquifer model for Hawtah Field. A technical report for Groundwater Division, Saudi Aramco.
- **Al-Shaibani, A.** 1999. Natural Recharge to the High Plains Aquifer in Dawson County, Texas. PhD Thesis, Texas A&M University.
- **Al-Shaibani, A.** 1994. Variation of Seismic-Wave Velocities in Westerly Granite under Stress. M.S. Thesis, Texas A&M University.

**Conferences
attended**

- Annual environmental protection conference, Sept., 2004, Al-Khobar, Saudi Arabia.
- WSTA 5th Gulf water conference, Doha, Qatar.
- WSTA 6th Gulf water conference, Riyadh, Saudi Arabia.
- 4th Specialty Conference on Environmental Progress in the Petroleum and Petrochemical Industries, Bahrain, Feb, 2004.
- The international conference on water resources management in arid regions, march, 2002. Kuwait Institute for Scientific Research, Kuwait.
- First Saudi Science Conference, April, 2001. ,KFUPM, Dhahran, Saudi Arabia.
- Second Saudi Science Conference, April, 2004. ,KAAU, Jeddah, Saudi Arabia.
- 1st international conference on saltwater intrusion and coastal aquifers. Monitoring, Modeling, and management. April, 2001. Essawira, Morocco.
- GEO2002
- GEO2004.
- First Saudi Geological conference, SGA, Jeddah, 1990.
- 6th Saudi Geological meeting, SGA, KACST, Riyadh, 1999.
- SEG, 61st annual international meeting. 1993, HoustonAAPG,
- NGWA, 1998, Las Vegas, USA..
- Sand Advance on Railroads Symposium, 2003. Khobar, Saudi Arabia.
- WATER Middle East 2003. 10/2003, Bahrain.