

DR. Khalil A. Gameel

Associate Professor, Civil & Environmental Engineering Dept., King Abdulaziz University

Education

<i>Degree</i>	<i>Discipline</i>	<i>Institution</i>	<i>Year</i>
PhD	Soil & Water Resources Engineering	<i>Iowa State University, USA</i>	2003
MS	Computer Science (Graduate Minor)	<i>Iowa State University, USA</i>	2003
MS	Soil & Water Resources Engineering & Environmental Engineering	<i>Iowa State University, USA</i>	1999
GIS	Graduate Certification	<i>Iowa State University, USA</i>	2006
BS	Engineering	<i>University of Agriculture, Pakistan</i>	1993

Academic Experience

<i>From</i>	<i>To</i>	<i>Institution</i>	<i>Rank</i>	<i>Title (Chair, Coordinator, etc.)</i>	<i>Full or Part Time</i>
2017	Present	King Abdulaziz Univ.	Assoc. Prof		Full Time
2015	2017	University of Buraimi, Oman	Assist. Prof.		Full Time
2013	2015	Comsats, Pakistan	Assist. Prof.	Chair	Full Time
2003	2007	Iowa State University-USA	Research Scientist		Part Time
2000	2003	Iowa State University-USA	Graduate Assistant		Part Time
1995	1997	Bahauddin Zakariya University, Pakistan	Lecturer		Part Time

Non Academic Experience

<i>From</i>	<i>To</i>	<i>Company/Entity</i>	<i>Title</i>	<i>Position description (Brief)</i>
2007	2013	Minnesota Pollution Control Agency (MPCA), USA	Hydrologist	<ul style="list-style-type: none"> • Develop, analyze, and implement watershed computer simulation models for water resources, watershed, and water quality projects, total maximum daily load (TMDL) study and implementation projects • Applications of GIS, GPS, RS, LiDAR, and spatial statistics, for water resources and watershed-ecosystems interaction, analysis, and management • Provide technical assistance to watershed/water resources projects at MPCA and coordinate with other state/federal agencies and groups (EPA, USDA-ARS, DNR, MDA, NRCS, USGS, and etc.)

Certifications and Professional Registrations

N/A

Current Membership in Professional Organizations

<i>Member Since</i>	<i>Rank</i>	<i>Society/organization</i>
2013	Member	Minnesota Governor's Council on Geographic Information (MGCGI), now called MnGeo
2010	Member	Sigma XI, The Scientific Research Society
2009	Member	American Water Work Research Association (AWRA)
2009	Member	American Geophysical Union (AGU)
2008	Member	Soil and Water Conservation Society (SWCS)
2007	Member	MN GIS/LIS Consortium and Iowa Geographic and Information Council (IGIC)
2002	Member	American Society of Agricultural & Biological Engineers (ASABE)
1998	Member	Alpha Epsilon (Honor Society of AFBE)
1993	Member	Pakistan Engineering Council (PEC)

Honors and Awards

1. Certificate of Appreciation(2013)-USA, in recognition of outstanding service as an Associate Editor (Soil and Water Division) American Society of Agricultural and Biological Engineers (ASABE)
2. Certificate of Appreciation(2012)-USA, Minnesota Pollution Control Agency (MPCA)-State of Minnesota, USA, Completion of 2nd largest TMDL studies in the history of USA
3. Outstanding Service Award(2011)-USA, in recognition of outstanding service as an Associate Editor (Soil and Water Division) American Society of Agricultural and Biological Engineers (ASABE)
4. Employee Recognition Award(2011)-USA, Minnesota Pollution Control Agency (MPCA)
5. Leadership Award (2009)-USA, Minnesota Pollution Control Agency (MPCA)
6. ESRI International Assistantship Award (2007)-USA, Research presented at an international conference with 120 countries participating, won assistantship award from ESRI, world's leading institution in the field of GIS
7. NASA 2nd Place Award (2007)-USA, Great Midwestern Regional Space Grant Consortium, Research presented at a meeting of eight Midwestern states (IL, IN, MI, MN, MO, OH, WI) won the 2nd best research award
8. Best Poster Award, 8th Biennial IGIC (2007)-USA, Best Poster Award from a state wide competition
9. All But Dissertation Award (2002) and (2003)-USA, Iowa State University: An award reserved for doctoral candidates who pass their qualifying/prelim exams in an exceptionally short period of time

Service activities (within and outside of the institution)

N/A

Principal Publications/Presentations from the Past Five Years

N/A

Recent Professional Development Activities

1. Working Together to Address the Effect of Climate Change on Water Resources – EPA
2. Climate Change Adaptation Tools for Addressing Water Issues – U.S. EPA
3. Nitrogen and Phosphorus Pollution and Harmful Blooms in Lakes - U.S. EPA
4. Remote Sensing – Leica Geosystems - USA

- a. ERDAS I & II
 - b. Hyperspectral Imagery (HSI) Exploitation and Analysis
 - c. Spatial Modelling and Expert Systems
 - d. Multispectral Classification
5. Geographic Information Systems (GIS) – Iowa State University - USA
- a. GIS graduate certification (12 graduate credit hours and watershed scale level project)
 - b. Image Analysis for ArcGIS
6. Water Resources/Watershed Models - USA
- a. Soil and Water Assessment Tool (SWAT) watershed model (Introductory and Advanced)
 - b. EPA BAINS/HSPF Model
 - c. US Army Corps of Engineers Hydrologic Model GSSHA (Introductory and Advance)