

CURRICULUM VITAE

**Mohsen M. Sherif, Ph.D., C.Eng., D.WRE, M.ASCE
Fulbrighter,**

Recipient of KHALIFA AWARD for Higher Education/Research, 2008

Name : Mohsen Morad Sherif

Current Positions : Director, Academic Personnel, Provost Office
Acting Dean, College of Engineering
Professor of Water Resources
UAE University, Al Ain, UAE.

Mailing Address : Provost Office, Crescent Building
UAE University
P.O. Box: 15551, Al-Ain
United Arab Emirates

Tel : + 971 3 713 6597 (Academic Personnel); + 971 3 713 4442 (Deans' office)

Fax : + 971 3 754 4288

E-Mail : msherif@uaeu.ac.ae

Employment Record :

09/2014 – Date : Acting Dean, College of Engineering, UAE University

10/2013- Date : Director, Academic Personnel, Provost Office

09/2011 – 09/13 : Associate Provost for Academic Personnel, UAE University, Al Ain.

08/2007 – 08/11 : Chairman, Civil and Environmental Engineering Department, College of Engineering,
UAE University, Al Ain, UAE.

09/2003 – 08/11 : Director, Water Resources Master Program, UAE University, Al Ain, UAE.

09/2001 - Date : Professor, Civil and Environmental Engineering Department, College of Engineering,
UAE University. Al Ain, United Arab Emirates.

11/97– 09/2001 : Research Scientist, Hydrology Department, Water Resources Division, Kuwait Institute
for Scientific Research, Kuwait.

01/97 – 07/1997 : Visiting Associate Professor, Civil and Environmental Engineering Department, Faculty
of Engineering, Louisiana State University, Baton Rouge, Louisiana, USA.

02/93– 06/1998 : Associate Professor, Irrigation and Hydraulics Department, Faculty of Engineering,
Cairo University, Egypt.

12/88 – 02/1993 : Assistant Professor, Irrigation and Hydraulics Department, Faculty of Engineering, Cairo
University, Egypt.

07/85 – 12/1988 : Research Assistant, Civil and Environmental Engineering Department, Louisiana State
University, Baton Rouge, Louisiana, USA.

06/83 – 07/1985 : Research and Teaching Assistant, Irrigation and Hydraulics Department, Faculty of
Engineering, Cairo University.

10/79 – 06/1983 : Instructor, Irrigation and Hydraulics Department, Faculty of Engineering, Cairo
University.

Main Discipline : Civil and Environmental Engineering

Specialty : Water Resources Management, Hydrogeology, Groundwater Flow and Contamination, Artificial Recharge and Management of Groundwater Systems, Hydrology, Hydraulics, Fluid Mechanics, Environmental Hydrology and Hydrogeology, Numerical Simulation, Climate Change and Water Resources, GIS in Water Resources.

Education :

- Ph.D., Civil Engineering/Groundwater, Cairo University/ Louisiana State University; Peace Fellowship Program, 1984-1988.
- M.Sc., Civil Engineering/ Water Resources, Faculty of Engineering, Cairo University, 1983.
- B.Sc., Construction/Civil Engineering, Faculty of Engineering, Cairo University, 1979.

Teaching and Research Experiences

a) Teaching Experience

- Tutoring Hydraulics and Hydrogeology, Cairo University, (79 - 86).
- Tutoring Groundwater and Hydrogeology at **Louisiana State University, U.S.A.**, (86 - 88).
- Lecturing Undergraduate Courses of Groundwater, Hydrogeology, Fluid Mechanics, Hydraulics, Cairo University, (88 -97).
- Lecturing Undergraduate Courses of Fluid Mechanics and Hydraulics at Fayom University, Egypt, (89 - 91).
- Lecturing Undergraduate Courses in Hydraulics and Groundwater at Helwan University, Egypt, (90 - 92).
- Development and Lecturing of Laboratory Courses on Hydraulics, Fluid Mechanics, and Groundwater at Cairo University (93-97)
- Lecturing Postgraduate Courses in Water Resources, Hydrology, Groundwater Flow and Pollution, and Environmental Hydrogeology at Cairo University (88 - 96).
- Lecturing Groundwater Pollution and Saltwater Intrusion in the International Course on **Environmental Hydrology in Arid Areas**, organized by the National Committee for the **IHP, UNESCO**, held in DRTPC, Cairo University, May - June, 88 - 97, (every year since 88 through 97).
- Lecturing the following undergraduate and graduate courses, College of Engineering, United Arab Emirates University (September 2001- Date):
 - 1- Water Resources – CIVL 325
 - 2- Fluid Mechanics- GENG 340
 - 3- Fluid Mechanics for Civil and Architecture Engineers- CIVL 345
 - 4- Special Topics in Water Resources – CIVIL 520
 - 5- Graduation Project I – CIVL 585
 - 6- Graduation Project II - CIVL 590
 - 7- Math and Engineering Applications IV (Numerical Methods)- MATH 3702
 - 8- Water Resources, Graduate level – WATR 601
 - 9- Fluid Mechanics, WATR 602- Graduate level
 - 10- Groundwater Contamination, Graduate level – WATR 620
 - 11- Simulation in Groundwater, Graduate level – WATR 621
 - 12- Graduate Seminar – WATR 603
 - 13- Special Topics in Water Resources, Graduate level – WATR 631
 - 14- Independent Studies in Water Resources, Graduate level WATR 632
 - 15- Thesis Supervision- WATR 640

b) Internal and External Research Funds after joining UAE University

The following table elaborates the type and level of the secured funds after joining UAE University in September 2001. Unfunded research is not included in this Table.

Project title	Date	Secured fund Dirhams	Type of fund	Status
Assessment of the Impacts of Climate Changes on Groundwater Quality in Coastal Aquifers	2002-03	30,000	Internal	Completed
Assessment of the Effectiveness of Al Bih, Al Tawiyean and Ham Dams in Groundwater Recharge using Numerical Models	2003 -05	736,000	External	Completed
Management of Groundwater Resources in Two Selected Coastal Aquifers of UAE and Oman	2003 - 06	576,000	Internal	Completed
Artificial Groundwater Recharge using Desalinated Water	2004 - 05	150,000	External	Completed
Development of a Neuro-Fuzzy Decision Support System for Water Resources Management: Phase One: Framework	Jan – Nov. 2007	400,000	External	Completed
Development of a GIS database for Water Resources Management in Ajman Emirate, UAE	2006 - 08	30,000	Internal	Completed
Development of a GIS-Based Demand Supply Model as a Decision Support System for Water Resources Management in the Emirate of Abu Dhabi	2008 - 09	400,000	External	Completed
Development and Updating a GIS Water Resources Database, Ministry of Environment and Water, Dubai	2008 - 09	1,932,000	External	Completed
Utilization of Hyper-saline Well Water and Salt Affected Lands in Animal Protein Production from Fish and Sheep, Co-PI	2009 -11	200,000	Internal	Completed
Seawater intrusion and the effects on groundwater quality and desalination processes considering the effect of climate change and sea level rise", A Research Project conducted in collaboration between, University of Exeter-UK, UAE University and University of Sharjah and funded by the British Council, UK.	2009 - 12	280,000	External	Completed
Establishment of a Water and Environment Center of Excellence, WECE. – Proposal ranked first among 18 th other proposals to establish centers.	2011 - 15	37,500,000	External NRF	Approved/ fund not provided
Hydraulic Analysis and Leakage Assessment in Selected Zones of Al Ain Water Distribution Network	2010 -11	20,000	Internal	Completed
Reassessment of PMP and PMF at the proposed site of a Nuclear Power Plant in UAE	March– Aug. 2010	246,100	External	Completed
Estimating Water Storage in Depressions and using GIS and RS in the Vicinity of the Nuclear Power Plant in UAE	August – Sept 2010	26,000	External	Completed
A Novel Approach for Freshwater Recharge and Recovery in Saline Aquifers; Phase one: Theoretical and Mathematical Development	Jan. 2011 – Feb. 12	250,000	Internal	Completed
Effective Control Seawater Intrusion by Optimal Combination of Abstraction, Desalination and Recharge- Proposal funded by the British Council, UK.	Jan.- Dec. 2013	18,000	External	Completed
Assessment of Groundwater Resources and Survey of Wells	July 2011 – Dec. 14	2,250,000	External, MEW	On-going
A Novel Approach for Freshwater Recharge and Recovery in Saline Aquifers; Phase Two: Assessment of ASR Practices and Numerical Simulation	March 2012-Feb 13	250,000	Internal	Completed

Evaluation of the ASR System and Testing of capacity Expansion	June 13 – Oct 14–	240,000	External SEWA	On-going
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d) Organization and Delivery of Training Courses:

- Training Course on “Open Channel Flow”, Civil Engineers, Ministry of Public Work and Water Resources, Cairo, Egypt, Oct - Nov. 1989.
- Training Course on “Groundwater Hydrology”, Civil Engineering Group, General Department of Hydrology, Yemen, Sept. 19 - Nov. 12, 1992.
- Training Course on “Hydraulic Similarity and Models”, Hydraulic Research Institute, NWRC, Cairo, Egypt, October 1993.
- Training Course on “Using Numerical Methods in Modeling Groundwater Flow and Pollution”, Research Institute for Groundwater, NWRC, Cairo, Egypt, (94 – 95).
- Assisted in the Organization of the International Training Course on “Environmental Hydrology in Arid Regions”, IHP/UNESCO- Cairo Office, (92 – 97 every year).
- International Training Course on “Groundwater Problems in Arid Environments: Assessment and Modeling”, Kuwait Institute for Scientific Research, Kuwait, (April 1999 and February 2000).
- Summer Training for Undergraduate Students from the GCC Universities at the Kuwait Institute for Scientific Research (July-August 1998 through 2001).
- Training Course on “Drainage Systems in Residential Areas”, Ministry of Electricity and Water, Kuwait (20-24 May 2000).
- Training Course on "Numerical Simulation of Groundwater Resources using SUTRA-GUI", Ministry of Agriculture and Fisheries, Dubai, UAE, 21-25 June 2003.
- Workshop on Groundwater Management in Coastal Aquifers, Sultan Qaboos University, Muscat, Sultanate of Oman, 22 December 2003.
- Training Course on "Advanced Modeling in Soil and Groundwater Systems", Sultan Qaboos University, Muscat, Sultanate of Oman, 15 – 19 May 2004.
- Training Course on "Surface Water Assessment and Simulation using HEC-HMS", Ministry of Agriculture and Fisheries, Dubai, UAE, 12-16 June 2004.
- Training Course on “HydroGeo Analyst” in collaboration with Schlumberger Water Services, Abu Dhabi, Ministry of Environment and Water, Dubai, 23 -27 December 2008.
- Training Course on "Aquifer Storage and Water Security in Arid Regions", EPFL Middle East, Ras Al Khaimah, RAK Investment Authority, 10-12 April 2011.

Professional Affiliation:

- American Society of Civil Engineers, **ASCE**
- Environmental and Water Resources Institute, **EWRI**
- International Association for Hydraulic Research, **IAHR**
- European Water Resources Association, **EWRA**
- Indian Association of Hydrologists (**IAH**)- Life Fellow,
- Gulf Cooperation Council Society for GeoEngineering, **GCCSGE**
- International Society of Soil and Water Conservation, **ISSWC**
- Arab Health Water Association **AHWA**
- Water Science and Technology Association, **WSTA**
- Egyptian Society of Engineers, **ESE**

Honors and grants:

- Peace Fellowship, **Louisiana State University, U.S.A.** (85-1988).
- Fulbright Scholar, **“U.S. Environmental Protection, Young African Leaders”** – Conducted scientific visits to the Environmental Protection Agency, Headquarter Office in Washington, U.S. Geological Survey- Alabama Office, Massachusetts Institute of Technology (MIT), Tufts University, Medford, Yale University, Arizona State University, Great Salt Lake River Project, and other scientific and research organizations, (April 11 - May 21, 1993). Sponsored by the **United States Information Agency - USIA**.
- Nominated for the Individual Achievement Award, **Colorado State University**, 1993.
- Fulbright Scholar: Awarded a 5-month grant to conduct a research on Groundwater Pollution at Louisiana State University and USGS, USA, 1996/97.
- Awarded the prize of the distinguished teacher of postgraduate level, Faculty of Engineering, Cairo University, Egypt, 1997.
- Awarded the prize of research in the field of Groundwater Protection and Quality, Ministry of Public Works and Water Resources, Egypt, 1997.
- Training Award, 3rd Annual Social Gathering, Kuwait Institute for Scientific Research (KISR), Kuwait, May 1999.
- The Best Externally Funded Research Project Award- Excellence in Research, UAE University, 2002/2003.
- Who's who in Science and Engineering, 2003/2004.
- Who's who in Engineering Higher Education, <http://engineering.academickeys.com/>.
- Awarded a long-term 4-year rolling contract for the duration 2006 – 2009, February 2005. The only faculty who was awarded this contract in the College of Engineering, UAE University.
- Renewal of the long term 4-year rolling contract for the durations 2007 – 2010, 2008 -2011, 2009 – 2012, 2010 – 2013, and 2011- 2014, UAE University.
- Recipient of a merit increase for exceptional performance and service during the AY 2005-06, College of Engineering, UAE University, June 2006.
- Recipient of **HE Sheikh Khalifa Award for Education**, Higher Education/Research, First Round, March 2008.
- Awarded the designation of Diplomate, Water Resources Engineer, American Academy of Water Resources Engineers, May 2011.

Activities with UNESCO - Cairo Office:

- Assisted in the preparation and editing of the final report of the Sixth Regional Meeting of the Arab National Committees of the International Hydrological Program of UNESCO, 3-6 December 1995, Amman, Jordan.
- Co-authored, working paper entitled "Water Resources: An Imminent Issue" with Dr. Abdin M. Salih. The paper was presented in the workshop "Environmental Communication for Women in Household and Community Water Management", 13-16 December 1995, El-Kharga City, New Valley, Egypt.
- Represented the UNESCO-Cairo Office in the "Second Meeting of the Regional Inter-Agency Task Force on Land and Water Resources", Organized by World Health Organization, Regional

Office for the Eastern Mediterranean, 10 January 1996, WHO/EMRO, Alexandria, Egypt.

- Reviewed the manuscript of the book "Vegetation of Jordan" by Dawud Al-Eisawi, 284, pp., Published through the Hydrology Programme of the UNESCO-Cairo Office, January 1996.
- Assisted in the preparation and editing of a report on **Environmental Sustainability**, Preparatory Mission and Implementation of TSS-1 Exercise, Egypt-Sustainable Human Resources Development: Sinai Integrated Agro-Enterprise Programme (SIAP), April 1996.
- Co-Editor, Proceedings of the workshop "Wadi Hydrology and Groundwater Protection", Organized by UNESCO- Cairo Office, 4-7 June 1996, IHP-V, Technical Document in Hydrology-No.1.

Review of Textbooks:

The manuscripts of the following books were reviewed either fully or partially before printing:

- *"Hydrologic Systems"*, Vol. 1, Prentice Hall, USA, 320 pp., 1989.
- *"Environmental Hydrology"*, Kluwer Academic Publisher, Netherlands, 479 pp., 1995.
- *"Hydrology of Disasters"*, Kluwer Academic Publisher, Netherlands, 442 pp., 1996.
- *"Vegetation of Jordan"*, UNESCO- Cairo Office, 1996.
- *"Dam-Breach Modeling Technology"*, Kluwer Academic Publisher, Netherlands, 242 pp., 1996.
- *"Environmental Hydraulics"*, Kluwer Academic Publisher, Netherlands, 415 pp., 1996.
- *"Geographical Information System in Hydrology"*, Kluwer Academic Publisher, Netherlands, 443 pp., 1997.
- *"Environmental Data Management"*, Kluwer Academic Publisher, Netherlands, 298 pp., 1998.
- *"Geology of Kuwait"* (in Arabic), Kuwait Foundation for Advancement of Sciences, Kuwait, 2000.
- *"Water Resources Engineering"*, Translation and Publication Committee, Academic Publication Council, Kuwait, February 2011.

Supervision of M.Sc. and Ph.D. Theses

The following students were advised and their Theses directed to completion:

1. Ahmed E. Hassan, M.Sc. Thesis, January 1991. "Groundwater Contamination in Leaky Aquifers." Faculty of Engineering, Cairo University, Egypt.
2. Ahmed R. Allam, M.Sc. thesis, February 1993. "A Groundwater Study in West Samalut Area." Faculty of Engineering, Cairo University, Egypt.
3. Khaled I. Hamza, M.Sc. Thesis, February 1993. "A Two-Dimensional Finite Element Model for Solute Transport in Groundwater." Faculty of Engineering, Cairo University, Egypt.
4. Emad Y. Nesim, M.Sc. Thesis, January 1995. "Modeling Saltwater Intrusion in Anisotropic Multilayer Aquifers." Faculty of Engineering, Cairo University, Egypt.
5. Mohammed H. El-Gamal, M.Sc. Thesis, February 1995. "Simulation of Saltwater Intrusion Using Saturated-Unsaturated Transport Model (STURA)." Faculty of Engineering, Cairo University, Egypt.
6. Tarek M. Sabaa, M.Sc. Thesis, August 1995. "Interactive Modeling for Groundwater Flow and Pollution." Faculty of Engineering, Cairo University, Egypt.
7. Wael M. K. Aly, M.Sc. Thesis, November 1995. "Numerical Simulation of Water Polices in Middle Nile Delta." Faculty of Engineering, Cairo University, Egypt.
8. Khaled I. Hamza, Ph.D. Thesis, July 1996. "Simulation of Decayable Materials in Groundwater." Faculty of Engineering, Cairo University, Egypt.

9. Hatem A.R. Sayed, Ph.D. Thesis, September 1996. "Water Resources Assessment and Utilization in El-Qaa Plain, Sinai." Faculty of Engineering, Cairo University, Egypt.
10. Mohammed A. Moustafa, M.S. Thesis, January 1997. "Modeling Groundwater Flow and Pollution via STURA and MOC: Testing and Evaluation." Faculty of Engineering, Cairo University, Egypt.
11. Ahmed R. Allam, Ph.D. Thesis, May 1998. "Artificial Groundwater Recharge in Egypt" Faculty of Engineering, Cairo University, Egypt.
12. Fatima A. Al Shahi, M.Sc. Thesis, December 2002. "Assessment of Groundwater Resources in Selected Areas of the UAE", Water Resources M.Sc. Program, UAE University, UAE.
13. Hind S. Al Nuaimi, M.Sc. Thesis, June 2003. "Hydrogeological and Geophysical Studies on the Jaw Plain, Al Ain area, UAE, Water Resources M.Sc. Program, UAE University, UAE.
14. Muna K. Al Hammadi, M.Sc Thesis, June 2003. "Assessment of Groundwater Resources using GIS and Remote Sensing", Water Resources M.Sc. Program, UAE University, UAE.
15. Rashid Al Kindi, M.Sc. Thesis, June 2004. "Assessment of Groundwater Recharge from the Dam of Wadi Aljizzi, Oman", Water Resources M.Sc. Program, UAE University, UAE.
16. Khalid Harron, M.Sc. Thesis, June 2004. "Assessment of Surface Water Runoff and Groundwater Recharge using Mathematical Models", Water Resources M.Sc. Program, UAE University, UAE.
17. Ahmed K. Osman, M.Sc. Thesis, January 2005. "Quantitative and Qualitative Assessment of Groundwater Resources in Al-Khatim Area, UAE", Water Resources Master program, UAE University, UAE.
18. Entisar S. Al-Katheeri, M.Sc. Thesis, June 2007. "Environmental Risk Assessment on Groundwater Recharge area, Liwa Aquifer, Environmental Sciences Master Program, UAE University, UAE.
19. Muhammad Sultan, M.Sc. Thesis, June 2007. "Pressure Optimization of Water Transition Pipelines and Booster Pumping Stations in Al Ain Region, Water Resources Master Program, UAE University, UAE.
20. Mohamed Rehan Yusuf, M.Sc. Thesis, January 2009. "Development of a GIS Database for Water Resources Management in Ajman Emirate", Water Resources Master Program, UAE University, UAE.
21. Ayeda M. Ali, M.Sc. Thesis, January 2009. "Assessment of Groundwater Vulnerability to Seawater Intrusion in the Coastal Aquifer of Wadi Ham", Water Resources Master Program, UAE University, UAE.
22. Nawal E. Saleh, M.Sc. Thesis, January 2009. "Modeling Hydrocarbons Transport and Remediation in the Saturated Groundwater Aquifer of Bu Hasa Field", Water Resources Master Program, UAE University, UAE.

Examiner and Internal Examiner of Ph.D and M.Sc. Theses

- External Examiner, "Studies on 2-D Horizontal Dispersion of High Density Pollutants through Saturated Porous Media", Ph.D. Dissertation, Andhra University, India, 2003.
- External Examiner, "The Feasibility of Allocating Groundwater for Agriculture to other Uses in Bahrain", M.Sc. Thesis, Deanship of Scientific Research, University of Bahrain, Bahrain, March 2006.
- External Examiner, "An Assessment of Groundwater Resources in Salalah Wellfield Protection Zones", M. Sc. Thesis, Sultan Qaboos University, Sultanate of Oman, April 2006.
- Internal Examiner, "Quantity and Quality Simulation in Al Ain Water Distribution System", M.Sc. Thesis, Water Resources Master Program, UAE University, Al Ain, UAE, June 2006.

- Internal Examiner, "Evaluation of Management Options for Groundwater Resources in Khatt Spring Area, UAE using GIS and MODFLOW", by Nada Butti Water Resources Master Program, UAE University, Al Ain, UAE, June 2009.
- External Examiner, "Regional Hydrogeology and Groundwater Flow of the Northern Ash Sharqiyah Sand Aquifer, Wadi al Batha Basin, M. Sc. Thesis, Sultan Qaboos University, Sultanate of Oman, June 2009.
- External Examiner, "Feasibility Study of Dammam Aquifer Recharge by Tertiary Treated Wastewater in Bahrain using Simulation Models", M.Sc. Thesis by Aqeel Ahmed A. Ahmed, College of Graduate Studies, Arabian Gulf University, March 2010.
- External Examiner, "A Simulation-Optimization Model to Study the Control of Seawater Intrusion in Coastal Aquifers", Ph. D Thesis by Hany Farhat Abd-Elhamid, College of Engineering, Mathematics and Physical Sciences, University of Exeter, UK, March 2011.

Publications and Research Outputs

a- Text Books

Cruise J., **Sherif M.M.**, and Singh V.P., "Elementary Hydraulics", hard cover, Thomson Nelson, Toronto, Ontario, Canada, 2007, 560p., ISBN: 0-534-49483-8.

Cruise J., **Sherif M.M.**, and Singh V.P., "Elementary Hydraulics"- International Student Edition, Thomson Nelson, Canada, 2007, ISBN: 0-495-08239-2.

Cruise J., **Sherif M.M.**, and Singh V.P., "Solution Manual for Elementary Hydraulics", Thomson Engineering, Toronto, Ontario, Canada, 2007, 313 p. ISBN 0-534-49484-6.

b- Books (Editor)

Mourits L.J., Salih A.M., and **Sherif M.M.**, editors " Proceedings of the UNESCO-NWRC-ACSAD Workshops on Wadi Hydrology and Groundwater Protection", Cairo 3-6 June 1996, International Hydrological Programme IHP-V, Technical Document in Hydrology No.1. UNESCO- Cairo Office, 1997. 143 pp.

Singh, V.P., Al-Rashed, M. and **Sherif M.M.**, editors, "Surface Water Hydrology", Proceedings of the International Conference on Water Resources Management in Arid Regions, Vol. 1, A.A. Balkema, Netherlands 2002.

Sherif, M.M., Singh, V.P. and Al-Rashed, M., editors, "Groundwater Hydrology", Proceedings of the International Conference on Water Resources Management in Arid Regions, Vol. 2, A.A. Balkema, Netherlands 2002.

Sherif, M.M., Singh, V.P. and Al-Rashed, M., editors, "Environmental and Groundwater Pollution", Proceedings of the International Conference on Water Resources Management in Arid Regions, Vol. 3, A.A. Balkema, Netherlands 2002.

Al-Rashed, M., Singh, V.P. and **Sherif M.M.**, editors, "Water Resources Development and Management", Proceedings of the International Conference on Water Resources Management in Arid Regions, Vol. 4, A.A. Balkema, Netherlands 2002.

Sherif M.M., Singh V.P., Al-Rashed M., editors, "Hydrology and Water Resources", Proceedings of the International Conference on Water Resources Management in Arid Regions, Vol. 5, A.A. Balkema, Netherlands 2003.

c- Book Chapters

Sherif M.M. and Singh V. P., "Saltwater Intrusion", Chapter 10 in "Hydrology of Disasters", Book Series: Water Science and Technology Library, Vol. 18. pp.269-319. Kluwer Academic Publishers, The Netherlands, 1996.

Bazaraa A.S., **Sherif M.M.** and Amer A.M., "Civil Engineering Education and Water Related Challenges in Egypt", Chapter 5 in "Environmental Engineering Education", published by Computational Mechanics Publishers, United Kingdom, 1997.

Sherif M.M., "The Nile Delta Aquifer in Egypt", Chapter 17 in "Seawater Intrusion in Coastal Aquifers: Concepts, Methods and Practices" Bear, J., Cheng, A., Sorek, S., Ouazar, D., and Herrera, A., (eds.), Book Series: Theory and Application of Transport in Porous Media, Vol. 14, pp. 559-590, Kluwer Academic Publishers, The Netherlands, 1999.

Sherif M.M., "Seawater Intrusion in the Nile Delta Aquifer: An Overview", Chapter 20 in "Coastal Aquifers Intrusion Technology: Mediterranean Countries" Lopez-Geta, J.A, Gomez, J, Orden, J, Ramos, G, and Rodriguez, L. (eds.), IGME, Madrid, Spain 2003.

Howari, F., **Sherif M.M.**, Singh, V.P., and Al Asam, M.S., "Application of GIS and Remote Sensing Techniques in Identification, Assessment and Development of Groundwater Resources" Chapter 1 in "Groundwater: Resource Evaluation, Augmentation, Contamination, Restoration, Modeling and Management", M. Thangarajan, editor. Capital Publishing Company, New Delhi, 2006.

Howari, F.M., **Sherif, M.M.**, Singh, V. P. and Azam, A. A., "Climate Change: Causes, Evidence and Impacts on Groundwater Resources". Chapter 12, pp. 451-478, in Hydrology and Hydraulics, edited by V.P. Singh, Water Resources Publications, Highlands Ranch, Colorado, 2008.

Sherif, M.M., Almulla, M., and Shetty, A., "Seawater Intrusion Assessment and Mitigation in the Coastal Aquifer of Wadi Ham", Chapter 13, pp. 271 – 294, in Groundwater in the Coastal Zones of Asia-Pacific, edited by C. Wetzellhuetter, Coastal Research Library, No. 7, DOI 10.1007/978-94-007-5648-9_13 Springer, 2013.

d- Journal Publications

Sherif M. M., Singh V.P. and Amer A.M., "A Two Dimensional Finite Element Model for Dispersion (2D-FED) in Coastal Aquifers", Journal of Hydrology, Vol.103 (11-36), 1988.

Amer A.M., Moussa A.B. and **Sherif M.M.**, "A Finite Element Model For The Dispersion Zone in Coastal Leaky Aquifers", Journal of the Faculty of Engineering, Cairo University, Vol. 36, 2:407-423, June 1989.

Sherif M.M., Singh V.P. and Amer A.M., "A Note on Saltwater Intrusion in Coastal Aquifers", Water Resources Management, Vol. 4: 123- 134, 1990.

Sherif M. M., Singh V.P. and Amer A.M., "A Sensitivity Analysis of "2D-FED" A Model for Seawater Encroachment in Leaky Coastal Aquifers", Journal of Hydrology, Vol. 118 (343 - 356), 1990.

Sherif M.M., Singh V.P. and Amer A.M., "A Finite Element Solution for Aquifer-Ocean Interaction", Journal of the Institution of Engineers, Civil Engineering Division, Vol. 71, CV6, March 1991.

Sherif M.M., "Solute Transport in Groundwater Using the Random-Walk Method", Journal of the Faculty of Engineering, Cairo University, April 1991.

Abdel-Halim, N.A., **Sherif, M.M.** and El-Zaher, A.S., "On The Fayom Weirs With Orifices", Journal of the Faculty of Engineering Cairo University, Nov. 1991.

Sherif M.M., Abdel-Halim, N.A. and Hassan, A.E., "A Parametric Study for Groundwater Pollution", Journal of the Faculty of Engineering, Cairo University, January 1992.

Amer A.M., **Sherif M.M.** and Saleh M.M., "A Hydrological Study for the Medieval Cairo", Journal of Faculty of Engineering, Cairo University, October 1992.

Sherif M.M., Hassan A.E. and Singh V.P., "Simulation of Leachate Migration in Leaky Aquifers", *Water Resources Management*, Vol. 8, pp. 264-284, 1994.

Sherif M.M., Amer, A.M. and Ismail, K.H., "Modeling Groundwater Pollution from Point Sources", *Journal of Faculty of Engineering, Cairo University*, October 1994.

Sherif M.M., ElArabi, N.A. and Allam, A.R., "Vertical Drainage via Tube Well System", *Journal of the Faculty of Engineering, Cairo University*, August 1995.

Allam, A.R., Amer, A.M., Attia, F. A. and **Sherif M.M.**, "Numerical Simulation of Artificial Recharge of Groundwater Through Spreading Basins" *Journal of Irrigation and Drainage*, Vol. 47, Issue No.1, pp.19-29, 1998.

Sherif M.M. and Singh V.P., "Effect of Climate Changes on Seawater Intrusion in Coastal Aquifers", *Hydrological Processes*, Vol. 13, Issue No. 8, pp. 1277-1287, 1999. DOI: 10.1002/(SICI)1099-1085(19990615)13:8<1277.

Al-Rashed M.F. and **Sherif M.M.**, "Water Resources in the GCC Countries: An Overview", *Water Resources Management*, Vol. 14 (1): pp.59-75, 2000.

Al-Rashed M.F. and **Sherif M.M.**, "Hydrogeological Aspects of Groundwater Drainage of the Urban Areas in Kuwait City", *Hydrological Processes*, Vol. 15, pp.777-795, 2001.

Sherif M.M. and Hamza K.I., "Mitigation of Seawater Intrusion by Pumping Brackish Water", *Transport in Porous Media*, Vol. 43, pp. 29-44, 2001.

Adnan A. and **Sherif M.M.**, "Groundwater Rise in Kuwait City: The Problem and Solutions", *Science and Technology*, Vol. 86, pp. 31-33, 2001.

Sherif M.M. and V.P. Singh, "Effect of Groundwater Pumping on Seawater Intrusion in Coastal Aquifers", *Journal of Agriculture Sciences*, 7(2), pp. 61-67, 2002.

Singh, V.P., Ahmad, M. and **Sherif, M.M.**, "A comparative evaluation of the estimators of the 2-parameter generalized Pareto distribution". *Water Engineering Research*, Vol. 4, No. 3, pp. 155-173, 2003.

Singh, V.P., Jain, S.K., and **Sherif, M.M.**, *Errors of Kinematic-Wave and Diffusion-Wave Approximations for Time-Independent Flows with Infiltration and Momentum Exchange Included*, *Hydrological Processes*, 19, 1771 -1790, 2005.

Sherif M.M., El Mahmoudi A., Garamoon H., Kacimov A., Akram S., Ebraheem A. and Shetty A., "Geoelectrical and Hydrogeochemical Studies for Delineating Seawater Intrusion in the outlet of Wadi Ham, UAE", *Environmental Geology*, 49: 536 – 551, February 2006.

Kacimov, A.R., Obnosove, Y.V., **Sherif, M.M.** and Perret, J.S., "Analytical Solutions to a Sea-water Intrusion Problem with a Fresh Water Zone Tapering to a Triple Point", *Journal of Engineering Mathematics*, Springer Netherlands, Vol. 54, Issue 3, pp. 197-210, DOI: 10.1007/s10665-006-9030-9, March 2006.

Kacimov, A. R., **Sherif, M.M.** "Sharp Interface, One-dimensional Seawater Intrusion into a Confined Aquifer with Controlled Pumping: Analytical Solution", *Water Resources Research*, Vol. 42, Issue 6, W06501, June 2006.

Kacimov, A.R., Al-Jabri, S., **Sherif, M.M.** and Al-Shidi, S., " Slumping of groundwater mounds: revisiting the Polubarinova-Kochina theory", *Hydrological Sciences Journal*, Vol. 54 (1), DOI: 10.1623/hysj.54.1.174. pp. 174-188, February 2009.

Kacimov, A.R., **Sherif, M.M.**, Perret, J.S., and Al-Mushikhi, "Control of sea-water intrusion by salt-water pumping: Coast of Oman", *Hydrogeology Journal*, Volume 17 (3), DOI: 10.1007/s10040-008-0425-8, pp. 541 – 558, May 2009.

Sherif, M.M., Akram, S. and Shetty, A., "Rainfall analysis in the Northern Wadis of the United Arab Emirates: A case study", Journal of Hydrologic Engineering, ASCE, Vol. 14 (6), DOI: 10.1061/_ASCE_HE.1943-5584.0000015, pp. 445-454, June 2009.

Mohamed, M., Saleh, N. and **Sherif, M.M.**, Sensitivity of Benzene Natural Attenuation to Variations in Kinetic and Transport Parameters in Liwa Aquifer, UAE, Bulletin of Environmental Contamination and Toxicology, Volume 84, No. 4., DOI: 10.1007/s00128-010-9957-4. April 2010.

Mohamed, M., Saleh, N. and **Sherif, M.M.**, Modeling In-Situ Benzene Bioremediation in the Contaminated Liwa Aquifer (UAE) Using the Slow-Release Oxygen Source Technique. Environmental Earth Sciences, Springer Pub. DOI 10.1007/s12665-010-0456-z, Volume 61, Number 7, pp1385-1399, 2010.

Sherif, M.M., "Water Availability and Quality in the GCC Countries: Implications for Public Health", Asia-Pacific Journal of Public Health, supplement to 22(3) 40-47, DOI: 10.1177/1010539510373037, July 2010.

Sherif, M.M., Mohamed M., Shetty, A., and Almulla, M., "Rainfall-Runoff Modeling of Three Wadis in the Northern Area of UAE", Journal of Hydrologic Engineering, ASCE, Vol. 16, No. 1, January/February 2011, pp. 10-20, (DOI 10.1061/(ASCE) HE.1943-5584.0000280).

Sherif, M.M., Mohamed M., Kacimov A. and Shetty A., "Assessment of Groundwater Quality in the Northern Area of UAE as Precursor for Desalination", Desalination, Volume 273, Issues 2-3, June 2011, Pages 436-446. DOI: 10.1016/j.desal.2011.01.069.

Javadi, A.A., **Sherif M.M.**, and Abd-Elhamid H.F., "Finite Element Modelling of Seawater Intrusion in Wadi Ham Aquifer, UAE", Engineering Computations Journal, Vol. 29, Issue 5, pp. 484-503, May 2012.

Ebraheem A.M., **M.M. Sherif**, M.M. Al Mulla, S. F. Akram and A. V. Shetty, "A Geoelectrical and Hydrogeological Study for the Assessment of Groundwater Resources in Wadi Al Bih, UAE", Environmental Earth Sciences, Vol. 67, No. 3, 2012, pp. 845-857, DOI: 10.1007/s12665-012-1527-0.

Sherif, M.M., Kacimov, A., Javadi, A., and Ebraheem, A.M., "Modeling Groundwater Flow and Seawater Intrusion in the Coastal aquifer of Wadi Ham, UAE", Water Resources Management, Volume 26, Issue 3, January 2012, Page 751-774. DOI 10.1007/s11269-011-9943-6.

Sherif, M. M., Sefelnasr, A., and Javadi, A., "Incorporating the Concept of Equivalent Freshwater Head in Successive Horizontal Simulations of Seawater Intrusion in the Nile Delta Aquifer, Egypt", Journal of Hydrology, (464-465), p186-198, September 2012. doi.org/10.1016/j.jhydrol.2012.07.007

Sefelnasr, A. and **Sherif, M.M.**, "Impacts of seawater rise on seawater intrusion in the Nile Delta Aquifer, Egypt", Groundwater, accepted February 2013.

Sherif, M.M., Almulla, M., Shetty, A., and Chowdhury, R.K., "Analysis of rainfall, PMP and drought in the United Arab Emirates", International Journal of Climatology, DOI: 10.1002/joc.3768., accepted July 2013.

Sherif M.M., Sefelnasr, A. Ebraheem, A., and Javadi, A., "Quantitative and Qualitative Assessment of Seawater Intrusion in Wadi Ham under Different Pumping Scenarios", ASCE Journal of Hydrologic Engineering, accepted September 2013.

Ebraheem, A.M., Al Mulla, M.M., **Sherif, M.M.**, Awad, O., Akram, S.F., Al Sweidi, N.B., and Shetty, A., "Mapping groundwater conditions in different geological environments in the northern area of UAE using 2D earth resistivity imaging survey", Environmental Science Journal, DOI 10.1007/s12665-014-3064-5, January, 2014.

Sherif, M. M., Ebraheem, A., Shetty, A., and Almulla, M., "Quantification of Groundwater Recharge and Efficiency of the Dam at Wadi Al Bih, UAE", under review, Journal of Hydrologic Engineering.

e- Publications in Refereed Conference Proceedings

Amer A., Moussa A. and **Sherif M.M.**, "A Model for Dispersion in the Sea Water Intrusion Phenomenon", Proceedings of the Conference on 'Water Resources Development in Egypt', Cairo, June 6-8, 1983.

Sherif M.M., Singh V.P. and Amer A.M., "A Numerical Simulation for Salt Transport in Coastal Aquifers", Proceeding of The 1st International Conference in Computer Methods and water Resources, Morocco, 1988.

Sherif M.M., "Numerical Simulation for Unsteady Advection Dispersion Problem in Groundwater", Proceedings of the AL-AZHAR Engineering 1st Conference, December 9-2, 1989.

Sherif M.M. and Singh V.P., "A Two Dimensional Finite Difference Model for Groundwater Pollution from Surface Disposal", Proceedings of the European Conference "Advances in Water Resources Technology", Athens 20-23 March 1991.

Amer A.M. and **Sherif M.M.**, "Environmental Implications on Drainage Water Reuse in Egypt", Proceedings of the 1st **EGYPTIAN-HUNGARIAN** Conference on Environment, Sinai 5-7 April 1993.

Sherif M.M. and Singh V.P., "Leachate Migration in Multi-Layer Aquifers", Proceedings of the International Symposium on Transport and Reactive Processes in Aquifers, ETH Zurich, Switzerland, April 11-15, 1994.

Sherif, M.M. and Amer, A.M., "Saltwater Intrusion in Multi-Layer Aquifers", Proceedings of the International Conference on "Water Resources Management in Arid Countries", March 12-16, 1995, Sultanate of Oman.

Sherif, M.M., "Global Warming and Groundwater Quality", Proceedings of the European Symposium on Water Resources Management in the Mediterranean under Drought or Water Shortage Conditions: Economic, Technical, Environmental and Social Issues, Nicosia - Cyprus, March 15-18, 1995.

Faird, M.S. and **Sherif, M.M.**, "Numerical Modeling for Groundwater Conditions in El-Arish Aquifer", Proceedings of the ASCE Conference, Egypt, October 1995.

Sherif, M.M., "Modeling Pollutant Injection in Multi-Layer Aquifers", Proceedings of the ASCE Conference, Egypt, October 1995.

Elshinnaw, I.A., Farid, M.S. and **Sherif, M.M.**, "Utilizing Water Resources in Arid Zones", International Water Technology Conference, Alexandria, February 1996.

Sherif, M.M., "Climatic Changes and Groundwater", Proceedings of the 2nd International Conference in Civil Engineering on Computer Application, Research and Practice, Bahrain, April 1996.

Taher, M.H., **Sherif, M.M.** and El-Hossary, M., "Environmental Impacts of Saline water ponds on Oases Aquifer Systems in Egypt, "Poster Paper" ICID International Conference, Cairo, Egypt, September 1996.

Sherif, M.M., Hamza, K.I. and Amer A.M., "A Two Dimensional Model for Transport of Decayables in Groundwater", Proceedings of the International Conference on Water Resources Management, Salinity and Pollution Control Towards Sustainable Irrigation in the Mediterranean Region, Bari-Italy, September 1997.

Amer, A.M., **Sherif, M.M.** and Masuch, D., "Groundwater rise in Greater Cairo: Cause and Effects on Antiquities", Proceedings of the XXVII Congress on Groundwater in Urban Environments, Nottingham - United Kingdom, September 1997.

Hamza, K.I, **Sherif M.M.** and Amer A.A., "Parametric Study for Transport of Decayables in Groundwater", Proceedings of the 1st International Conference on Civil Engineering, Helwan University, Cairo, March 1998.

Amer, A.M., Ahmed, H.A.S., Helwa, M.F. and **Sherif M.M.**, "Water Resources Assessment in El-Qaa Plain-Sinai", Proceedings of the International Conference on World Water Resources at the Beginning of the 21st Century, UNESCO, Paris, June 1998.

Sherif, M.M., Hamza, K.I. and Amer A.A., "Simulation of Decayable Materials in Groundwater", Proceedings of International Conference on Future Groundwater at Risk", Changchun, China, July 1998.

Al-Awadi, E., **Sherif M.M.**, and Al-Otaibi. M., "Climate Changes and Water Resources in Arid Regions", Dubai International Conference on Desertification, Dubai, UAE, 12-15 February 2000.

Sherif M.M., "Saltwater Intrusion into Coastal Aquifers", Keynote Paper, Proceedings of the First International Conference on Geotechnical, Geoenvironmental Engineering and management in Arid Lands, Geo2000, Al Ain, UAE, 4-7 November 2000.

Akber, A., **Sherif M.M.** and Ghoneim, H., "Modeling Groundwater Conditions in Al-Wafra Area of Southern Kuwait", Proceedings of the First International Conference on Geotechnical, Geoenvironmental Engineering and management in Arid Lands, Geo2000, Al-Ain, UAE, 4-7 November 2000.

Al-Rashed M., Szekely F., and **Sherif M.M.**, "Numerical Modeling of Subsurface Drainage in Kuwait City", Proceedings of the First International Conference on Geotechnical, Geoenvironmental Engineering and management in Arid Lands, Geo2000, Al-Ain, UAE, 4-7 November 2000.

Sherif M.M. and Al-Rashed M.F., "Vertical and Horizontal Simulation of Seawater Intrusion in the Nile Delta Aquifer", Proceedings of the First International Conference on Saltwater Intrusion and Coastal Aquifers- Monitoring, Modeling, and Management, SWICA-M³, Morocco, 23-25 April 2001.

Al-Rashed, M.F. and **Sherif M.M.**, "Water Resources in the GCC Countries", Proceedings of the First International Conference on Economical and Social uses of Water in the Arab Countries, Beirut, 18-21 June 2001.

Sherif, M.M., Mohamed, A.M.O, Bobba, A.G., and Singh, V.P., "Seawater Intrusion in the Nile Delta Aquifer under Different Pumping Scenarios", Proceedings of the International Conference on Water Resources Management in Arid Regions, Kuwait, 23-27 March 2002.

Al-Otaibi, M. and **Sherif M.M.**, "Hydraulic Aspects of Artificial Recharge of Conventionally Treated Wastewater in Kuwait", Proceedings of the International Conference on Water Resources Management in Arid Regions, Kuwait, 23-27 March 2002.

Fahmi, A.H., Farid, M.S., **Sherif M.M.**, "Integrated Solution to Flash Floods Problems in Wadi Watier, South Sinai, ARE", Proceedings of the International Conference on Water Resources Management in Arid Regions, Kuwait, 23-27 March 2002.

Al-Rashed, M.F. and **Sherif M.M.**, "Dewatering Practices in Kuwait City: Assessment and Modeling", Proceedings of the International Conference on Water Resources Management in Arid Regions, Kuwait, 23-27 March 2002.

Bobba, A.G., Rao, Y.R.S., **Sherif, M.M.**, and Singh, V.P., "An Eco-Watershed Management Approach to Sustainable Development of an Indian Coastal Watershed", Proceedings of the International Conference on Water Resources Management in Arid Regions, Kuwait, 23-27

March 2002.

Al-Nuaimi, H., Al-Hammadi M., El-Mahmoudi A., and **Sherif M.M.**, "Landforms and Water Resources in the United Arab Emirates", Water and Environment: Planning, Development, Utilization, Conservation and Management, Bhopal, India, 15-18 December 2003.

El-Mahmoudi A. S, Al-Nuaimi H. and **Sherif M.** "Geophysical and Hydrogeological Investigations of the Quaternary Aquifer at Al Jaww Plain, Al Ain Area, UAE", Fast Times published by the Environmental and Engineering Geophysical Society V. 9, No.1, 17-28, Feb 2004.

Sherif M.M. Akram S., Shetty, A., El Mahmoudi A., Ebraheem A, Al Mahrizy A., Ahmed, I., Harron K., "Geomorphological and Geological Setting of Selected Wadis in the Northern Emirates, UAE", Proceedings of the 5th annual Research Conference, UAEU, p. 11-22, April 2004.

Sherif M.M., Kacimov, A., ElMahmoudi A., Ebraheem A., Akram S., Perret J., Shetty, A., Al-Shidi, S., "Geophysical Studies for Assessment of Seawater Intrusion in the Aquifers of Wadi Ham, UAE and Wadi Al Batinah, Oman", Proceedings of the 5th annual Research Conference, UAEU, p. 23-31, April 2004.

Kacimov, A.R., Obnosov Y.V., Perret J.S. and **Sherif, M.M.**, "Seawater intrusion problem: Mathematical models versus field studies". Proceedings of the International Conference on Algebra and Analysis. V.23, Kazan, Russia, July 2-9, pp. 112, 2004.

Sherif M.M., Al Asam, M.S., Akram, S.F., and Shetty, A., "Assessment and Development of Surface Water Resources in Arid Regions", Second Oman-Japan Symposium: Preservation of Environmental and Water Resources amid Economic Development, Muscat, Sultanate of Oman, 6-8 February 2005.

Sherif, M.M., Kacimov, A.R., and Ebraheem, A., Control of Seawater Intrusion in Coastal Aquifers by Pumping Saline Water, Proceedings of the 6th annual research conference of UAE University, Al Ain, UAE, 24 – 26 April 2005.

Sherif M.M. and Kacimov A., Seawater Intrusion in Coastal Aquifers under Global Warming Conditions, International Conference on Energy, Environment and Disasters, INCEED 2005, Charlotte, North Carolina, USA, 24-30 July 2005.

Al-Kindi R. and **Sherif M.M.**, Simulation of Groundwater Conditions in the vicinity of Wadi Al-Jizzi Dam, Sultanate of Oman, proceedings of WSTA Seventh Gulf Water Conference, 19-23 November, 2005, State of Kuwait.

Sherif M.M., Shetty A., Alobad S. and Ahmed, I., Simulation of Surface Water Runoff and Groundwater Resources in Wadi Ham, UAE, proceedings of WSTA Seventh Gulf Water Conference, 19-23 November, 2005, State of Kuwait.

Akram, S.F., Shetty, A., Al Matri, A.S., and **Sherif, M.M.**, Application of Models for the Sustainable Management of Water Resources in Wadi Ham, UAE, JCCP-UAEU Symposium on Sustainable Environment and Water Resources in GCC Countries, 28-30 January 2006, Abu Dhabi, UAE.

Sherif, M.M., Kacimov, A., Akram, S.F., and Shetty, A.V., Artificial Recharge of Groundwater: Field Experiment, 3rd JCCP-UAEU Symposium on Sustainable Environment and Water Resources in GCC Countries, 28-30 January 2006, Abu Dhabi, UAE.

Sherif. M.M., Kacimov, A., and Shetty A., "Artificial Recharge and Seawater Intrusion in Wadi Ham Aquifer, UAE", Proceedings of the 7th annual research conference of UAE University, Al Ain, UAE, 28 – 30 April 2006.

Sherif M.M. and Kacimove, A., "Effect of Porosity on Unsteady Seawater Intrusion in Confined Coastal Aquifers", International Conference on Challenges in Coastal Hydrology and Water Quality, 21-24 May 2006, Baton Rouge, Louisiana.

Sherif M.M. and Kacimove, A., "Seawater Intrusion in the Coastal Aquifer of Wadi Ham, UAE", IUGG Conference, July 2-13, 2007, Perugia, Italy. Also published in IAHS-AISH Publication, Issue 312, 2007, Pages 315-325.

Bobba, Ghosh A. and **Sherif, M.M.**, "Simulation Model to Predict Pollutants in Krishna-Godavari Deltas, India", Proceedings of the Third International Congress on Technology of Seawater Intrusion into Coastal Aquifers (TIAC'07), October 16-19, 2007, Almeria, Spain.

Sherif M.M., "Artificial Recharge of Groundwater in Coastal aquifers", Keynote Paper, Proceedings of the Third International Congress on Technology of Seawater Intrusion into Coastal Aquifers (TIAC'07), October 16-19, 2007, Almeria, Spain.

Saleh N. E., Mohamed, M.M. and **Sherif, M.M.**, "Modeling Hydrocarbon Transport in Liwa Aquifer of Bu Hasa Field, UAE and Evaluation of Remediation Alternatives", Proceedings of the 6th International IAHS Groundwater Quality Conference, Fremantle, Western Australia, 2-7 December 2007.

Sherif M.M. and Yousef, M.R., "Development of GIS Database for Water Resources Management in Ajman Emirate", Proceedings of the 9th annual research conference of UAE University, Al Ain, UAE, 21- 23 April 2008.

Sherif M.M. and Kacimov, A. R., "Pumping of Brackish and Saline Water in Coastal Aquifers: An Effective Tool for Alleviation of Seawater Intrusion", Proceedings of the 20th Salt Water Intrusion Meetings, SWIM-20, Naples, Florida, 23-27 June, 2008.

Mohamed, M., Saleh, N. and **Sherif, M.M.** "Sensitivity Analysis Study of Benzene Plume to Natural Attenuation in Liwa Aquifer Under Bu Hasa Field, UAE". Groundwater and human well being IAHS conference, Toyama, Japan, Oct. 2008.

Kacimov Anvar, **Sherif M.M.**, Al-Shidi, S., Obnosov, Al-Mushikhi, A., Al-Jabri, S., Perret, J., Al-Maktoumi, A., "Sea water intrusion in an Omani coastal aquifer: can pumping of saline water mitigate the harm?", Keynote paper, International Conference on Management of Soil and Groundwater Salinization in Arid Regions, Sultan Qaboos University, Muscat, 11-14 January 2010.

Al Mulla, M., A. Debebe, M., **Sherif M.M.**, A.M. Ebraheem, M. Saadullah and M. Qaiser., "A GIS water resources and water budget system For an integrated management of water resources in UAE", Proceeding of the GCC Water Conference, Muscat, Sultanate of Oman, 22-25 March 2010.

Sherif, M.M., Kacimove, A., and Ebraheem, A., "Three-Dimensional Mapping of Seawater Intrusion using Geophysical Methods", World Environmental & Water Resources Congress in Providence, Rhode Island, EWRI 2010, 16-20 May, 2010.

Kacimov, A., **Sherif, M.M.**, and Obnosov, Y., "Phreatic coastal aquifer in Oman: field studies, mathematical modeling and optimal control of artificial recharge", World Environmental & Water Resources Congress in Providence, Rhode Island, EWRI 2010, 16-20 May, 2010.

Sherif, M.M., AlMulla, M., and Ebraheem, A.A., "Groundwater Recharge from Rainfall in Wadi Ham, United Arab Emirates", Proceedings of the 7th Annual International Symposium on Managed Aquifers Recharge, Abu Dhabi, 9 -13 October 2010.

Sherif, M.M., Al Mulla, M. and Ebraheem, A.A., "Assessment of the Effectiveness of Dams on the Recharge of the Shallow Aquifer in the Northern Area of UAE", World Environmental and Water Resources Congress, EWRI 2011, Palm Springs, California, 22-26 May 2011.

Javadi, A., Abd-Elhamid, H., **Sherif, M.M.**, "Numerical modelling of seawater intrusion and the effects on groundwater quality considering the impact of sea level rise and climate change", Climate Change Workshop, the Gulf Research Meeting, Cambridge, 6-8 July 2011.

Javadi, A.A., **Sherif, M.M.**, Abd-Elhamid, H.F., Ahangar-Asr, A., Faramarzi, A., "Numerical

modelling and control of seawater intrusion". Proceedings of the 20th UK Conference of the Association for Computational Mechanics in Engineering, 26-28 March 2012, Manchester, UK

Sherif, M.M. "Groundwater Management in Coastal Aquifers and Possible Impacts of Climate Changes", Keynote paper, Fourth International Congress on Technology of Seawater Intrusion into Coastal Aquifers (TIAC'12), Almeria, Spain, 20-23 April 2012.

Sherif, M.M., Sefelnasr, A., and Javadi, A., "Areal Simulation of Seawater Intrusion Problems using FEFLOW", 2012 ASCE/EWRI World Environment and Water Resources Congress, Albuquerque, New Mexico, 20-24 May 2012.

Sherif, M.M. and Javadi, A.A., "Seawater intrusion and the impact on groundwater resources; Case studies from the Gulf region", Gulf Research Meeting, 11-14 July 2012, Cambridge, UK.

Javadi, A.A. Abd-Elhamid, H.F, and **Sherif M.M.**, "Optimal control of seawater intrusion in coastal aquifers", Proceedings of the International Conference on Computational Mechanics CM13, Durham, UK 25-27 March 2013.

Sherif M.M. and Shetty, A., "Freshwater storage in brackish aquifers", Proceedings of World Environmental and Water Resources Congress, EWRI, Cincinnati, Ohio, 19-23 May 2013.

Sherif M.M., Chowdhury, R. and Shetty, A., "Rainfall and Intensity-Duration-Frequency (IDF) Curves in United Arab Emirates", Proceedings of World Environmental and Water Resources Congress, EWRI, Portland, Oregon, 1 – 5 June 2014.

f- Pedagogical Papers

Bazaraa A.S. **Sherif M.M.** and Amer A.M., "Preparation of Civil Engineering Students to Meet Water Related Environmental Challenges in Egypt", Proceedings of the 3rd World - Congress on Engineering Education and Training- Quality of Engineering Education "An International Perspective, Cairo-Egypt, November 14-18, 1994.

Elshorbagy, W., Sweedan, A., Elsayy, K., and **Sherif M.M.**, "Development of the Assessment Process for the Civil Engineering Program of the United Arab Emirates University, Symposium on Engineering Education, UAE University, Al Ain, 16-18 May 2009.

Elshorbagy, W., **Sherif M.M.**, Sweedan, A., and Elsayy, K., Evolution of Educational Objective Assessment of the Civil Engineering Program, United Arab Emirates University", Proceedings of International Symposium on Engineering Education and Educational Technologies, EEET 09, 10-13 July, Orlando, Florida.

M. Mohamed and **M. Sherif.**, Do UAE Civil Engineering Graduates Get Comparable Education to Graduates of Western Universities? 5th International Forum on Engineering Education (IFEE2010) Engineering Education in the 21st Century - Quality, Globalization and Local Relevance, UAE, 23-25 November 2010.

g- Published Abstracts

Kacimov A.R, Obnosov, Yu. V., **Sherif M.M.**, Perret J.S., Sea Water Intrusion Problem in a Coastal Aquifer with a Phreatic Surface Distributed Sink (**Abstract**), SQU Research Day, Muscat, May 2004.

Sherif M.M., Saif, A., Akram, S., AlAsam, S., "Groundwater Recharge through Dams in Arid Regions", Workshop on Artificial Groundwater Recharge: A Step Towards Water Security, Kuwait Institute for Scientific Research, Kuwait, 15-16 February 2005.

Sherif M.M., Akram, S., Shetty, A., Ebraheem, A., and Garamoon, H., Simulation of Surface Water Runoff and Groundwater Flow in Northern Emirates, The 6th Annual Research Conference, UAE University, Al Ain, UAEU, 24 – 26 April, 2005.

Othman, A.K., **Sherif M.M.**, Garamoon, H.K., and Ebraheem, A. A.M., Assessment of Groundwater Resources in AlKhatm Area, Abu Dhabi Emirate, UAE, The 6th International

Conference on the Geology of the Middle East, 20-22 March 2006, Al Ain, UAE.

Sherif, M.M., Water Availability and Demands in GCC Countries, Water Summit: Water Resources Development, Conservation and Management, 28 March 2007, Al Ain UAE.

Kacimov, A., Al-Jabbri, S., **Sherif, M.M.**, and Al-Shidi, S., Seawater Intrusion and its Alleviation by Smart Pumping-Injection of Groundwater, Book of Abstracts, IAHR International Groundwater Symposium: Flow and Transport in Heterogeneous Subsurface Formations: Theory, Modelling and Applications, 18-20 June 2008, Istanbul, Turkey.

Sherif, M.M., Surface Water Runoff and Groundwater Recharge in Arid Regions, Book of Abstracts, 9-11 October, 2008.

Sherif M.M., "Water Availability and Quality in the UAE- Implications for Public Health", A Worldwide Scientific Conference: Global Health and the UAE- Asia-Middle East Connections, UAE University, Al Ain, 4-8 January 2010.

Sherif M.M., Sefelnasr, A., Javadi, A., "Two-Dimensional Horizontal Simulation of Variable Density Flow in Coastal aquifers", Invited Speaker, Symposium on Water Security, Organized by Oman Research Council and the British Council Muscat, Oman, 19-21 March 2011.

Javadi, A.A., **Sherif, M.M.**, Abd-Elhamid, H.F. "Numerical modelling and control of seawater intrusion". Keynote lecture. The Symposium on Environmental Problems in the Arab World: Meeting the Challenges of Sustainable Development. 26-28 Feb 2012. Muscat, Oman. pp. 14.

Sherif M.M., Ebraheem, A.A., and Al Mulla, M., "Application of Resistivity Imaging in the Assessment of Groundwater in Areas of Springs", National Groundwater Association, NGWA Groundwater Water Summit, 4-7 May 2014, Denver, Colorado.

Sherif, M.M., Freshwater Storage and Recovery in Groundwater Systems, Symposium on "Disposal of large volumes of water: challenges and opportunities for arid environments in MAR practices", Water Research Center, Sultan Qaboos University, 15-16 June 2014, Muscat, Oman.

h- Reports and Research Proposals (Completed/Approved):

Sherif et al., "Effect of Groundwater on Greater Cairo Antiques", Final Report, DRTPC - Cairo University, January 1992.

Singh V.P. and **Sherif M.M.**, "Development of a Two Dimensional Finite Element Model for Groundwater Contamination", Louisiana State University, Baton Rouge, Louisiana, U.S.A, June 1993.

Sherif et al., "Gain and Loss Downstream High Aswan Dam", Interim Report, Academy of Science and Technology, Ministry of Scientific Research, Egypt, October 1994.

Amer A. and **Sherif M.M.**, "Behavior of Sea Water Intrusion in the Nile Delta under Different Conditions", Report No: 32, Strategic Research Program, Sponsored by USAID/MPWWR, Egypt, September 1995.

Elansary A. and **Sherif M.M.**, "Geophysical and Geoelectrical Study for Groundwater in El-Sadaat City", Agency of New Communities, Ministry of State for New Urban Communities, Egypt, November 1995.

Sherif M.M. and Ghanem A.H., "Prevention of Water Hammer in the Main Pipe of Al-Thawra Al-Khadra Farming Area at Cairo-Alexandria Desert Road, Six October City, December, 1995.

Elansary A. and **Sherif M.M.**, "Assessment of the Impacts of the Oxidation Pond on the Domestic Water Wells in El-Sadaat City", Agency of New Communities, Ministry of State for New Urban Communities, Egypt, June 1996.

Amer A. and **Sherif M.M.**, "An Integrated Study for the Seawater Intrusion in the Nile Delta

Aquifer", Strategic Research Program, Sponsored by USAID/MPWWR, Egypt, August 1996.

Sherif et al., "Gain and Loss Downstream High Aswan Dam", Final Report, Academy of Science and Technology, Ministry of Scientific Research, Egypt, December 1996.

Sherif M.M. and Singh V.P., "Groundwater Development and Sustainability in the Nile Delta Aquifer", Final Report, Binational Fulbright Commission, July 1997.

El-Nahhas F., Al-Rashed M., Szekely F., **Sherif M.**, Ebrahim M., and Ghoneim H., "Study, Design and Construction of a Pilot Groundwater Drainage Project, WH001, Phase 3: Long-Term Operation, Monitoring and Assessment of the Drainage System at Shamiyah and Kaifan", Three Volumes, First Interim Report, KISR 5262, Kuwait Institute for Scientific Research, Kuwait, May 1998.

Akbar A., **Sherif M.**, Ghoneim H., Al-Senafy M., and Naseeb H., "Evaluation of Current Groundwater Conditions in Al-Wafra and Al-Abdally Farm Areas, WH011K", Progress Report KISR 5450, Kuwait Institute for Scientific Research, Kuwait, November 1998.

El-Nahhas F., **Sherif M.**, Szekely F., Ebrahim M., Mukhopadhyay A., and Ghoneim H., "Study, Design and Construction of a Pilot Groundwater Drainage Project, WH001, Phase 3: Long-Term Operation, Monitoring and Assessment of the Drainage System at Shamiyah and Kaifan", Four Volumes, Second Interim Report No. KISR 5425, Kuwait Institute for Scientific Research, Kuwait, November 1998.

Sherif M.M., "Development, Analysis and Integration of the Hydrogeological Data in Kuwait, WH017K", Proposal, KISR 5547, Kuwait Institute for Scientific Research, Kuwait, May 1999.

Akbar A., **Sherif M.**, Ghoneim H., Al-Senafy M., "Evaluation of Current Groundwater Conditions in Al-Wafra and Al-Abdally Farm Areas, WH011K", Final Report, KISR 5582, Kuwait Institute for Scientific Research, Kuwait, June 1999.

El-Nahhas F., **Sherif M.**, Szekely F., Abdullah, W., Hadi, K. and Ghoneim H., "Study, Design and Construction of a Pilot Groundwater Drainage Project, WH001, Phase 3: Long-Term Operation, Monitoring and Assessment of the Drainage System at Shamiyah and Kaifan", Three Volumes, Third Interim Report No. KISR 5597, Kuwait Institute for Scientific Research, Kuwait, July 1999.

El-Nahhas F., **Sherif M.**, Hadi K., and Ghoneim H., "Subsurface Water Drainage at Al-Udailiyah, Kuwait", Proposal- Submitted to the Ministry of Electricity and Water, Kuwait, September 1999.

Sherif M., Szekely F., Mukhopadhyay A., Ghoneim H., and Al-Fahad, K., "Study, Design and Construction of a Pilot Groundwater Drainage Project, WH001, Phase 3: Long-Term Operation, Monitoring and Assessment of the Drainage System at Shamiyah and Kaifan:- Hydrogeological Analysis", Four Volumes, Final Report (Part 2), KISR 5840, Kuwait Institute for Scientific Research, Kuwait, May 2000.

El-Nahhas F., **Sherif M.**, W. Abdullah, K.Hadi and Ghoneim H., "Study, Design and Construction of a Pilot Groundwater Drainage Project, WH001, Phase 3: Long-Term Operation, Monitoring and Assessment of the Drainage System at Shamiyah and Kaifan:- Main Report", Final Report (Part 1), KISR 5840, Kuwait Institute for Scientific Research, Kuwait, May 2000.

Sherif M. and Akber A., "Construction and Operation of a Groundwater Drainage System at Sabah Al-Salem", Proposal, Kuwait Institute for Scientific Research, Kuwait, August 2000.

Sherif M. and Ebrahim M., "Development of Public Awareness and Suggestion of Practical Methods for Reduction of Water Consumption", Proposal, Kuwait Institute for Scientific Research, Kuwait, September 2000.

Sherif M., "Monitoring and Assessment of the Environmental Damage in the Groundwater-Proposal", Cluster 1 of the Five-year Program for the Monitoring and Assessment of the Environmental Consequences of Iraq's Aggression, Public Authority for Assessment of Compensation for Damage Resulting from Iraqi Aggression/Kuwait Institute for Scientific

Research, Kuwait, June 2001.

Sherif M. and Merabtene T., "Assessment and Simulation of Groundwater Recharge at Three Selected Dams in UAE", Research Proposal, Ministry of Agriculture and Fisheries/UAE University, UAE, May 2002.

Sherif, M.M., Abdulla, M., Al Shahed, A., and El Bassiounui, K. "Assessment of the Impacts of Climate Changes on Groundwater Quality in Coastal Aquifers", Scientific Research Sector, UAEU, December 2002.

Sherif M.M (Project Leader) and Kacimov, A., "Management of Groundwater Resources in Two Selected Coastal Aquifers of UAE and Oman", A Collaborative Research Project between UAEU and SQU, Proposal submitted to UAEU/SQU Research Sectors, December 2002.

Sherif, M.M., et al., "Assessment of the Effectiveness of Al Bih, Al Tawiyean and Ham Dams in Groundwater Recharge Using Numerical Models", First Progress Report, Ministry of Agriculture and Fisheries, Dubai, UAE, September 2003.

Sherif, M.M. (Project Leader) and Kacimove, A., "Modeling of Groundwater in two Selected Coastal Aquifers of UAE and Oman as a Precursor for Water Resources Management", 1st Progress Report, Research Sectors, UAEU/SQU, UAE, December 2003.

Sherif, M.M., (Project Leader) et al., "Assessment of the Effectiveness of Al Bih, Al Tawiyean and Ham Dams in Groundwater Recharge Using Numerical Models", First Interim Report, Vol. 1: Geological, Hydrogeological and Hydrological Investigations, Ministry of Agriculture and Fisheries, Dubai, UAE, March 2004.

Sherif, M.M., (Project Leader) et al., "Assessment of the Effectiveness of Al Bih, Al Tawiyean and Ham Dams in Groundwater Recharge Using Numerical Models", Interim Report, Vol. 2: Lithological and Mineralogical Investigations, and Geophysical Logging of Boreholes, Ministry of Agriculture and Fisheries, Dubai, UAE, March 2004.

Sherif, M.M. (Project Leader) and Kacimove, A., "Modeling of Groundwater in two Selected Coastal Aquifers of UAE and Oman as a Precursor for Water Resources Management", Interim Report, Research Sectors, UAEU/SQU, UAE, April 2004.

Sherif, M.M., (Project Leader) et al., "Assessment of the Effectiveness of Al Bih, Al Tawiyean and Ham Dams in Groundwater Recharge Using Numerical Models", 2nd Progress Report, Ministry of Agriculture and Fisheries, Dubai, UAE, September 2004.

Sherif, M.M. (Project Leader) and Kacimove, A., "Modeling of Groundwater in two Selected Coastal Aquifers of UAE and Oman as a Precursor for Water Resources Management", 2nd Progress Report, Research Sectors, UAEU/SQU, UAE, October 2004.

Sherif, M.M. (Project Leader) and Kacimove, A., "Modeling of Groundwater in two Selected Coastal Aquifers of UAE and Oman as a Precursor for Water Resources Management", 2nd Interim Report, Research Sectors, UAEU/SQU, UAE, May 2005.

Sherif, M.M. (Project Leader), et al., "Assessment of the Effectiveness of Al Bih, Al Tawiyean and Ham Dams in Groundwater Recharge Using Numerical Models", Final Report Vol. 1: Main Report, Ministry of Agriculture and Fisheries, Dubai, UAE, June 2005.

Sherif, M.M. (Project Leader), et al., "Assessment of the Effectiveness of Al Bih, Al Tawiyean and Ham Dams in Groundwater Recharge Using Numerical Models", Final Report Vol. 2: Wadi Al Bih Dam, Ministry of Agriculture and Fisheries, Dubai, UAE, June 2005.

Sherif, M.M. (Project Leader), et al., "Assessment of the Effectiveness of Al Bih, Al Tawiyean and Ham Dams in Groundwater Recharge Using Numerical Models", Final Report Vol. 3: Wadi Al Tawiyean Dam, Ministry of Agriculture and Fisheries, Dubai, UAE, June 2005.

Sherif, M.M. (Project Leader), et al., "Assessment of the Effectiveness of Al Bih, Al Tawiyean and Ham Dams in Groundwater Recharge Using Numerical Models", Final Report Vol. 4: Wadi Ham Dam, Ministry of Agriculture and Fisheries, Dubai, UAE, June 2005.

Sherif, M.M. (Project Leader) and Kacimove, A., "Modeling of Groundwater in two Selected Coastal Aquifers of UAE and Oman as a Precursor for Water Resources Management", 3rd Progress Report, Research Sectors, UAEU/SQU, UAE, December 2005.

Sherif M.M., Hawas, Y., Mohamed, AMO, and Debebe, A., "Development of a Neuro-Fuzzy Decision Support System for Water Resources Management", Research Proposal submitted to Schlumberger Water Services, June 2006.

Sherif, M.M. (Project Leader) and Kacimove, A., "Modeling of Groundwater in two Selected Coastal Aquifers of UAE and Oman as a Precursor for Water Resources Management", Final Report, Research Sectors, UAEU/SQU, UAE, October 2006.

Sherif, M.M., Hawas, Y., Mohamed, AMO., Debebe, A., Akram, S., Al Mulla, M., "Development of a Neuro-Fuzzy Decision Support System for Water Resources Management: Phase One: Framework", Progress Report, Schlumberger Water Services, Abu Dhabi, March 2007.

Sherif, M.M., Hawas, Y., Mohamed, AMO., Debebe, A., Akram, S., Al Mulla, M., "Development of a Neuro-Fuzzy Decision Support System for Water Resources Management: Phase One: Framework", Final Report, Schlumberger Water Services, Abu Dhabi, November 2007.

Al-Shorepy, S.A, El-Shishtawy, I, Salem, M.A, **Sherif, M.M.**, Sherif, S.A, "Utilization of Hyper-Saline Well Water and Salt Affected Lands in Animal Protein Production from Fish and Sheep", Interdisciplinary Research Proposal submitted to the Research Affairs, UAE University, September 2008.

Sherif, M.M., Idris, Ala Eldin and Yusuf, M.R., "Development of a GIS database for Water Resources Management in Ajman Emirate, UAE", Final Report, Research Affairs, UAE University, December 2008.

Jevadi, A., **Sherif M.M.**, Omar, M., "Seawater intrusion and the effects on groundwater quality and desalination processes considering the effect of climate change and sea level rise", A Research Project conducted in collaboration between, University of Exeter, UAE University and University of Sharjah, British Council, PMI2 Strategic Alliances and Partnerships project, March 2009.

Sherif, M.M., "Development of a Water Balance Model", Final Report, Schlumberger Water Services, May 2009.

Sherif M.M., "Hydraulic Analysis and Leakage Assessment in Selected Zones of Al Ain Water Distribution Network", an individual research proposal submitted to the Research Affairs, UAE University, November 2009.

Sherif M.M., Singh, V. P, Ebraheem, A., and Shetty, A., "Revised Evaluation of the Probable Maximum Precipitation and Probable Maximum Flood, Enp 1 & 2, United Arab Emirates", Project No. 08-4075, Final Report, PAUL C. RIZZO ASSOCIATES, INC, Monroeville, PA, USA, June 2010.

Sherif M.M., et al., "Water Level due to PMF at the NPP, United Arab Emirates", Final Report, PAUL C. RIZZO ASSOCIATES, INC, Monroeville, PA, USA, August 2010.

Sherif, M.M., "Impacts of Climate Changes on Water Resources Availability and Management in United Arab Emirates", A pre-proposal submitted for possible funding, office of Vice Provost, UAE University, February 2011.

Sherif, M.M., Almehaideb, R., and Alzar'ouni, S., "Development of a Unified Registration System for Engineers in Abu Dhabi Emirate", A proposal submitted to Department of Economic Development, Abu Dhabi, March 2011.

Sherif, S.A, **Sherif M.M** and Gheblawi, M., "Optimization of Groundwater Allocation for Agricultural Practices in the Emirate of Abu Dhabi Considering Water Quality Utilization", A research proposal submitted to the National Research Foundation, UAE, April 2011.

Sherif, M.M. and Shetty, A., "A Novel Approach for Freshwater Recharge and Recovery in Saline Aquifers". First Progress Report, Research Affairs, UAE University, January 2012.

Sherif, M.M., "Evaluation of ASR Practices in UAE and Selection of Suitable Sites and Techniques of ASR in the Northern Emirates", A proposal submitted to the Ministry of Environment and Water, Dubai, UAE, February 2012.

Sherif, M.M., et al., "Assessment of Groundwater Resources and Survey of Wells", First Interim Report, Ministry of Environment and Water, Dubai, UAE, October 2012.

Sherif, M.M. "Evaluation of the ASR System and Testing of capacity Expansion, Sharjah Emirate", A Research Proposal submitted to Sharjah Elasticity and Water Authority, SEWA, February 2013.

Sherif, M.M., et al., "Assessment of Groundwater Resources and Survey of Wells", Final Report: Two Volumes, Ministry of Environment and Water, Dubai, UAE, October 2013.

Sherif, M.M. "Evaluation of the ASR System and Testing of capacity Expansion, Sharjah Emirate", First Progress Report, Sharjah Elasticity and Water Authority, SEWA, October 2013.

Sherif, M.M., et al., "HydroAtlas of United Arab Emirates", Ministry of Environment and Water, Dubai, November 2013.

Sherif, M.M. "Evaluation of the ASR System and Testing of capacity Expansion, Sharjah Emirate- Cost Analysis of Aquifer Storage and Recovery Systems, Second Progress Report, Sharjah Elasticity and Water Authority, SEWA, February 2014.