

Curriculum Vitae

Dr. Mushtaque Ahmed

Professor

Department of Soils, Water and agricultural Engineering

College of Agricultural and Marine Sciences

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1. PERSONAL DETAILS

Full name	Mushtaque Ahmed
Present position	Professor, Department of Soils, Water and Agricultural Engineering, Sultan Qaboos University (SQU)
Address	College of Agricultural and Marine Sciences, Sultan Qaboos University, Al-Khoud 123, PO Box 34, Sultanate of Oman
Date of birth	14/03/1958
Nationality	Australia
Marital status	Married
Date of appointment	1996
Degrees awarded (years)	PhD in Water Resources, Iowa State University, USA (1984-1988) MSc. in Civil Engineering, University of Hawaii, USA (1982 - 1984) BSc. in Civil Engineering, Bangladesh University of Engineering & Technology, Bangladesh (1977-1981))
Work experience (Position and Dates)	Professor (SQU) , 2016 – Present Associate Professor (SQU) , 2002 – 2016 Assistant Professor (SQU) , 1996 – 2002 Head of Department , Dept. of Soils, Water & Agricultural Engineering (2003-2005) Assistant Dean for Postgraduate Studies and Research, College of Agricultural and Marine Sciences (CAMS), (2009-2010) Director , Center for Environmental Studies and Research (CESAR), SQU, Oman (2010-2013)
Research Interests and Professional Expertise	Water Quality, Water & Wastewater Treatment, Reuse of Treated Wastewater, Desalination, IWRM, Bio saline Agriculture, Use of low quality water
Websites	Google: https://scholar.google.com/citations?user=jnnY4oMAAAAJ&hl=en Researchgate: https://www.researchgate.net/profile/Mushtaque_Ahmed Scopus: https://www.scopus.com/authid/detail.uri?authorId=7402831091 Linkdin: https://www.linkedin.com/in/mushtaque-ahmed-06205217/ Publon: https://publons.com/researcher/465471/mushtaque-ahmed Facebook: https://www.facebook.com/mushtaque.ahmed.923 CV: https://www.squ.edu.om/Portals/10/MAhmed%203778%20CV%20Oct%202021.pdf?

2. Awards, Honors, Recognition and Achievements

	Year	Award, achievement, recognition	Source
1	1999	Outstanding Teacher, College of Agriculture, SQU (only 1 award was given)	SQU
2	1984	Was inducted into Honor Society 'Phi Kappa Phi'	Phi Kappa Phi, USA
3	1982	Received 'East-West Center' scholarship to pursue graduate studies at University of Hawaii, USA	EWC, USA

3. Teaching

Teaching courses

Undergraduate courses		Postgraduate courses
SWAE 3304	Soil & Water Conservation	WATR 6405 Advanced Topics in Water Resources
SWAE 3305	Agro climatology	SWAE 6312 Soil and Groundwater Contamination & Clean-up
SWAE 3315	Water Quality	SWAE 6405 Integrated Water Resources Management
SWAE 3303	Elements of Hydrology	SWAE 6009 Advanced Topics in Soils, Water & Agricultural Engineering
SWAE 3325	Desalination and Membrane Tech.	
CAMS 3000	Seminar and Presentation Skills	
SWAE 4415	Water Res Mgt & Legislation	
SWAE 4305	Water Control and Supply	
SWAE 4412	Management of Salt-Affected Soils	
SWAE 4325	Water Treatment	
SWAE 4902	Research Projects in SWAE	

4. Scholarly Activities

Selected Refereed Journal Publications (2019-2021)

1. Rhonda Janke, Daniel Blackburn, Mumtaz Khan, Ahmed Al Busaidi, Waleed Al Busaidi, Ali Al Hinai and **M. Ahmed**. 2021. A 25 Year History of the use of Organic Soil Amendments in Oman: A review Journal of Agricultural and Marine Sciences, 27(1): 41–49 DOI: 10.53541/jams.vol27iss1pp41-49 (Accepted 01 Sep 2021)
2. Al-Aufi, M. Al-Wardy, B. Choudri, **M. Ahmed**, G. Al-Rawas and Y. Al-Mulla. 2021. Spatial and Temporal Assessment of Vegetation Cover in Al-Suwaiq Using Satellite Images Analysis. Journal of Agricultural and Marine Sciences, 26(1): 1-12.
3. Al-Busaidi, A., **M. Ahmed**, H. Al-Maskari, S. Al Maamari. 2020. Improving water use efficiency of crops for sustainable agriculture in dry lands. Desalination and water treatment 176:182-189. DOI: 10.5004/dwt.2020.25515
4. Collings, D; Tandlich, R; Dube, Cyril S.; Madikizela, P; Ngqwala, N. P. and **Ahmed, M**. 2019. Preliminary Study on the Potential Use of Fly Ash as a Ventilated Improved Pit Latrine Additive. The Journal of Solid Waste Technology and Management, Volume 45, Number 4, November 2019, pp. 395-402(8), DOI: <https://doi.org/10.5276/JSWTM/2019.395>
5. Choudri, B.S., Charabi, Y., and **M. Ahmed**. 2019. Ecological and Human Health Risk Assessment. Water Environment Research, Annual Literature Review. 1-8, 2019 <https://doi.org/10.1002/wer.1194>.
6. Al-Jabri, S., Slim Zekri, Domingo Zarzo, and **M. Ahmed**. 2019. Comparative Analysis of Economic and Institutional Aspects of Desalination for Agriculture in the Sultanate of Oman and Spain. Desalination and Water Treatment, 156, p1-6.
7. Al-Aufi, K, M. Al-Wardy, B.S. Choudri and **M. Ahmed**. 2019. Analysis of Crops Cultivation Trend: A Shifting Scenario in a Coastal Wilayat, Oman. Environment Development and Sustainability, <https://doi.org/10.1007/s10668-019-00309-4>

	Refereed Conference Papers/ Proceedings/ Books and Chapters in Books (2017-2021)
1	Alhajii, Z.K., M. Ahmed , and J.N. Al Sabahi. 2021. Bromate Removal from drinking water using adsorbents and ZnO nano particles. In Towards a sustainable water future: proceedings of OICWE2020. ISBN 978-0-7277-6525-3.
2	El Kharraz, J. ..., M. Ahmed , et al. 2021. Management options for extending the lifecycle of reverse osmosis membranes and their environmental assessment. In Towards a sustainable water future: proceedings of OICWE2020. ISBN 978-0-7277-6525-3.
3	Jayasuriya, H., A. Al-Busaidi, and M. Ahmed . 2018. Precision Irrigation Management through Conjunctive Use of Treated Wastewater and Groundwater in Oman. Proceedings of the 14th International Conference on Precision Agriculture. June 24 – June 27, 2018, Montreal, Quebec, Canada
4	Ahmed, M. , S. Al-Jabri and M. Al-Haddabi. 2017. Use of membrane Technology in Non-Traditional Sectors in Oman. Proceedings of IDA World Congress, Oct 15-20, 2017, Sao Paulo Brazil.

	Conference Abstracts /Poster/Chapters
1	AbdulKhalik, S.J., P. Padmavathiamma, M. Ahmed and H. Agrama. 2016. Effect of Sewage Sludge Compostin Enhancing the Growth of Grasses in Phytoremediation of Diesel Contaminated Soil Proceedings of 13th IWA Specialized Conference on Small water & Wastewater Systems, 14-17 September 2016, Athens, Greece.
2	Ahmed, M. , M. Baawain, S. Al-Jabri, A. Al-Busaidi, S. Al-Lawati and B.S. Choudri. 2016. Small-scale wastewater treatment systems and reuse studies in Oman. Proceedings of 13th IWA Specialized Conference on Small Water & Wastewater Systems, 14-17 September, 2016, Athens, Greece.
3	Al-Busaidi, A., R. Al-Yahyai, F. Al-said and M. Ahmed . 2014. Heavy metals in date palms irrigated by conventional and non-conventional waters. Proceedings of the conference on ‘use of unconventional water in urban water management’. MRMWR, Oman and RCUWM-Tehran. 24-26 Feb, Muscat, Oman.

	Refereed Book Chapters/Entries
1	Al-Busaidi A., Ahmed M. 2020 Jatropa Plantation in Oman. In: Hirich A., Choukr-Allah R., Ragab R. (eds) Emerging Research in Alternative Crops. Environment & Policy, vol 58. Springer, Cham. https://doi.org/10.1007/978-3-319-90472-6_13
2	Al-Busaidi, A. and M. Ahmed . 2017. Maximum Use of Treated Wastewater in Agriculture. In: Water resources in arid areas: the way forward. Springer, Abdalla et al. (eds.).
3	Al-Busaidi, A. and M. Ahmed . 2017. Mitigating Environmental Risks of Wastewater Reuse for Agriculture. Chapter 4 in the book Biological Wastewater Treatment and Resource Recovery, ISBN 978-953-51-3046-8, edited by Robina Farooq and Zaki Ahmad, http://dx.doi.org/10.5772/65871
4	Al-Busaidi, A. and M. Ahmed . 2016. Treated Municipal Wastes: Are they Contaminating or Enriching the Soil? Chapter 3 in the book Soil Contamination - Current Consequences and Further Solutions, ISBN 978-953-51-2816-8, edited by Marcelo L. Larramendy and Sonia Soloneski.

Research projects - Selected						
#	Role	Year/ Completion	Project title	Fund by	Fund value	
					OMR	USD
1	Investigator	2021-2022	Integrated Process for the Management of Reject Brine and Capture of Carbon Dioxide	SQU	5,900	15,200
2	Co-PI	2021-2022	Role of Expatriate Labor in Water Management of Omani Farms	SQU	7,900	20,400
3	Investigator	2019-2021 Completed	Use of end-of-life reverse osmosis membranes to treat wastewater for industrial and Agricultural use	TRC, Oman	140,000	361,000
4	PI	2017-2019 Completed	Assessment of Virtual Water in exported date palm and fodder grass grown in Sultanate of Oman and assessment of Water Footprints of Muscat population (Principal Investigator)	SQU	4,500	11,600
5	Co-PI	2018, On-going	Bio-Waste Assessment and Data Gathering (Field Survey)	Oman Environmental Services Holding Co.	18,900	48,800

5. Collaborations and Consultancies

Collaborators	Institute/University/Organization	Country
1. Mr. Marco Orlando	PRIMA, Barcelona	Spain
2. Dr. Kevin Price	USAID, MEDRC	USA, Oman
3. Dr. Jauad El Kharaaz	RCREEE	Egypt
4. Dr. Alex Stefanakis	University of Crete	Greece