

SHADAB AHMAD

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Profile

Looking for academic and research position in the field of Chemical and/or Environmental Engineering in a reputed university.

Fifteen (15) years of academics, research and industrial experience. At present working as Senior Environmental Consultant at Green Fields Environmental Consultancy, Yanbu, Kingdom of Saudi Arabia.

Currently working as a Senior Environmental Consultant at Green Fields Environmental Consultancy, Yanbu, Saudi Arabia since August 2019.

PhD Environmental Engineering (Submitted) March 2021 from Jamia Millia Islamia (Central University), India and **shall get the degree in coming 2-3 months.**

Education

Jamia Millia Islamia, Central University, New Delhi, India

PhD. Engineering (Environmental) 2021 (Submitted)

PhD Thesis: *Modelling and Assessment of Traffic Related Air Pollution in an Urban Area*

Chalmers University of technology, Gotenborg, Sweden, Europe

M.S. Engineering (Environmental) 2005

M.S. Thesis: *Analysis of fouling on RO-VSEP (LFC1) membrane system used in recovering Nutrients from household sewage water of Skogaberg area"*

Weblink: <http://publications.lib.chalmers.se/records/fulltext/10760.pdf>

Aligarh Muslim University (AMU), Central University, Aligarh, India

B. Tech. Chemical Engineering 2003

B. Tech. Thesis: *Techno-economic feasibility report on Manufacture of Methanol by Steam Reforming of Natural Gas*

Design and Fabrication of Coiled Channeled Solar Water Heater Based on Secondary Flow Phenomena

Professional Experience, Academic and Industrial, (>15 years)

Green Fields Environmental Consultancy, Yanbu, Kingdom of Saudi Arabia; Senior Environmental Consultant	Aug 2019 – Present
Debre Tabor University, Debre Tabor, Ethiopia; Lecturer	Sep 2017 - July 2019
Jamia Millia Islamia, New Delhi, India; PhD Research Scholar	July 2013 - July 2019
Al-Falah University, Faridabad, Haryana; Assistant Professor	Jan 2014 - Nov 2016
Galgotias College of Engineering, Greater Noida, UP; Assistant Professor	Feb 2011 - Oct 2013
Radha Govind Engineering College, Meerut, UP; Assistant Professor	Jul 2010 - Jan 2011
Indian Institute of Technology, IIT, Delhi, India; Institute Research Scholar	Jan 2009 - Dec 2010
Zakir Husain College of Engineering, Aligarh Muslim University, Aligarh, India; Lecturer	Sep 2007 - Jun 2008
Zakir Husain College of Engineering, Aligarh Muslim University, Aligarh, India; Guest Faculty	Mar 2006 - May 2007
City of Goteborg Recycling, Goteborg, Sweden; Research Assistant	Jan 2005 - Aug 2005

Consultancy Projects Handled

- 2019 - 2021
- Environmental Emergency Response Plan (EERP), General Agencies & Contracting Co. (GAC) Concrete Plant, Yanbu, Saudi Arabia
 - Industrial Waste, Ground Water, Green House Gas (GHG) and Waste Minimization Plan Report, Jotun Saudi Company Limited, Saudi Arabia
 - Annual Boundary Noise and Ground Water Report, Saudi Waterproofing Company, Saudi Can Company, Mada Gypsum Company, Saudi Arabia
 - Permit Application Package (Update), Environmental Permit to Operate (EPO) Renewal, Jotun Paints, Saudi Arabia
 - Air Emission Inventory Report, Ta'ahleel Environmental Services (Ta'ahleel), Jubail, Saudi Arabia
 - Environmental monitoring Survey (air quality, noise and illumination) SIDCO, Dammam, Saudi Arabia

Publications

- Books :02
- Journal papers :06
- Conference papers: 08

Books (02)

1. S. Ahmad, Fluid Mechanics, *Vayu Education of India Ltd.*, New Delhi, 2013, (ISBN: 9789382174837), Web link <https://www.kopykitab.com/Sample-PDF-Fluid-Mechanics-By-Shadab-Ahmad>

2. S. Ahmad, Environmental Engineering II, *Vayu Education of India Ltd.*, New Delhi, 2013, (ISBN: 9789382174844),
<https://www.kopykitab.com/Sample-PDF-Environmental-EngineeringII-By-Shadab-Ahmad>

Research papers published in International Journals (06)

1. S. Ahmad, F.A. Kidwai and Kafeel Ahmad (2019), 'Evaluating traffic related near road CO dispersions on an urban road during summer season: A model inter-comparison'. *Asian Journal of Water, Environment and Pollution*, Vol. 16, No. 1, pp. 69–79. DOI 10.3233/AJW190008. *Scopus Indexed Journal, IOS Press, Netherlands*
<https://content.iospress.com/articles/asian-journal-of-water-environment-and-pollution/ajw190008>
2. S. Ahmad, F.A. Kidwai and Kafeel Ahmad (2018), 'A unique model for predicting near road traffic related CO dispersion in city environment', *Journal of Advance Research in Dynamical and Control Systems*, Vol. 10, 04-Special Issue, pp. 2141-2147. *Elsevier and Scopus Indexed Journal, Institute of Advanced Scientific Research, USA.*
<https://www.jardcs.org/backissues/abstract.php?archiveid=6939>
3. S. Ahmad, F.A. Kidwai and Kafeel Ahmad (2018), 'Prediction and analysis of near-road CO concentrations due to heterogeneous traffic using a simplified-type dispersion model'. *Asian Journal of Water, Environment and Pollution*, Vol. 15, No. 4, pp. 131–142. DOI 10.3233/AJW-180066. *Scopus Indexed Journal, IOS Press, Netherlands*
<https://content.iospress.com/articles/asian-journal-of-water-environment-and-pollution/ajw180066>
4. S. Ahmad (2015), 'Estimation of Roadside Air Pollution Concentration Due to Vehicular Traffic', *International Journal of Modern Sciences and Engineering Technology*, Vol. 02, (11), pp. 45-49.
5. S. Ahmad (2015), 'Pervaporation-Distillation Mixed Process', *International Journal of Modern Sciences and Engineering Technology*, Vol. 02, (11), pp. 50-56.
6. S. Ahmad, (2013), 'The Disposing Techniques of Water Treatment Wastes Containing Arsenic – A Review', *International Journal of Chemtech Research*, Vol. 5 (02), pp. 899-911. *Scopus Indexed Journal.*
[http://sphinxesai.com/2013/conf/PDFS%20ICGSEE%202013/CT=54\(899-911\)ICGSEE.pdf](http://sphinxesai.com/2013/conf/PDFS%20ICGSEE%202013/CT=54(899-911)ICGSEE.pdf)

Research papers published in International Conferences (08)

1. G. Nibret, S. Ahmad, D.G. Rao, I. Ahmad, S.M. Ashfaq and Z. Rehman (2019), 'Removal of Methylene Blue Dye from Textile Wastewater using Water Hyacinth Activated Carbon as Adsorbent: Synthesis, Characterization and Kinetic Studies', *International Conference on Sustainable Computing in Science, Technology and Management (SUSCOM-2019)*, (24-25 February, 2019), Amity University, Jaipur, Rajasthan, India. *Elsevier SSRN Conference.*
https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3358101
2. Shadab Ahmad, Farhan Kidwai and Kafeel Ahmad (2018), "Prediction and examination of mixed traffic related near-road concentrations by a simplified-type dispersion model", *2nd International*

Conference on Trends and Recent Advances in Civil Engineering (TRACE – 2018), (23rd – 24th August, 2018), Amity University, U.P., India.

3. S.Ahmad, F.A. Kidwai and Kafeel Ahmad (2018), ‘A unique model for predicting road traffic related CO dispersion in city environment’, *51st International Conference on Latest Researches in Engineering, Science and Management*, (March 30 - 31st, 2018), .New Delhi, India.
4. S. Ahmad, F.A.Kidwai and Kafeel Ahmad (2018), ‘Comparative assessment of modeling and simulation of heterogeneous traffic flow’, *51st International Conference on Latest Researches in Engineering, Science and Management*, (March 30 - 31st, 2018), .New Delhi, India.
5. S. Ahmad, (2013), 'The Disposing Techniques of Water Treatment Wastes containing Arsenic – A Review', *International Conference on Global Scenario in Environment and Energy*, (March 14-16, 2013), Maulana Azad National Institute of Technology, Bhopal, India.
6. S. Ahmad, (2013), “Biological Waste Gas Treatment using Membrane Based Technology”, *2nd International Conference on Emerging Trends in Engineering and Technology*, (April 12-13, 2013), Moradabad, India.
7. S. Ahmad and Ziaurrehman, (2009), “An Experimental Study to Prevent Fouling on RO-VSEP (LFC1) Membrane System Used in Recovering Nutrients from Household Sewage Water”, *International Conference on Emerging Technologies in Environmental Science and Engineering*, (October 26-28, 2009), Aligarh Muslim University, Aligarh, India.
8. Ziaurrehman and S.Ahmad, (2009), “Laboratory Scale Studies on Biological Removal of Chromium from Synthetic Wastewater using Dual Stage Process”, *International Conference on Emerging Technologies in Environmental Science and Engineering*, (October 26-28, 2009), Aligarh Muslim University, Aligarh, India.

Member Editorial Board

1. Acta Scientific Agriculture
<http://www.actascientific.com/ASAG-EB.php>

Workshops/Refresher Courses Attended

- Attended a webinar on “*Challenges and Opportunities in Polar Research*” organised by Department of Environmental Science, Jamia Millia Islamia (Central University), New Delhi, India, 2020.
- Taught as a **visiting faculty** at *The Environment Research Institute (TERI)*, Vasant Kunj, New Delhi, India, for one semester in 2014.
- Attended **one day workshop** on “*Emerging Trends in Civil Engineering*”, at Galgotias College of Engineering and Technology, Greater Noida, 2011.

- Presented a **seminar** on “*Artificial Intelligence in Chemical Process Plants using Neural Network, Expert System and Fuzzy Logic*”, Z. H. College of Engineering and Technology, Aligarh Muslim University, Aligarh, 2001
- Attended the annual meeting on global sustainability, “*The Alliance for Global Sustainability*”, at *Chalmers University of Technology, Sweden, 2004*

Awards and Achievements

- Principle design and implementation engineer on the proposed research and community project on “*Floating drum biogas digester*” at Debre Tabor University, October, 2018.
- Awarded *Maulana Azad National Fellowship for PhD* from University Grants Commission (UGC), New Delhi, 2017.
- Passed Chemical Engineering courses at IIT Delhi with CGPA of 7.1/10.
- Awarded *10,000 Swedish Kroner Scholarship* for Masters Project at Gotenburg Municipality, Sweden, Europe, 2005.
- Qualified *GRE and TOEFL* Exam in 2003.
- Awarded **First Prize** at Poster presentation Competition titled “*Biofiltration*”, at University Institute of Chemical Technology, U.I.C.T, Mumbai, India, 2001.
- Awarded **First Prize** at Paper Presentation Competition titled “*Nanosponges: From inclusion Chemistry to Water Purifying Technology*”, at Zakir Husain College of Engineering and Technology, Aligarh Muslim University, Aligarh, India, 2001.
- Visited *Nuclear Waste storage site “Aspo Laboratories”* at Oakshalm, East of Sweden, Europe, 2004
- Performed two months *Industrial Summer Training* at “*Somayya Organic India Ltd.*”, Barabanki, UP, India, 2001

Major Courses Taught at Bachelor Level

- **Fluid Machinery** at Debre Tabor University, Ethiopia
- **Fluid Mechanics** at Debre Tabor University, Ethiopia
- **Plant Design and Economics** at Debre Tabor University, Ethiopia
- **Heat and Mass Transfer** at Aligarh Muslim University, Aligarh, India
- **Chemical Process Industries** at Aligarh Muslim University, Aligarh, India
- **Water and Waste Water Treatment** at Al-Falah University, Faridabad, India
- **Environmental Management** at Al-Falah University, Faridabad, India
- **Strength of Materials** at Radha Govind Engineering College, Meerut, India

Courses Taught at Masters Level

- **Air Pollution Modeling** at Al-Falah University, Faridabad, India
- **Surface Water Quality Modeling** at Al-Falah University, Faridabad, India
- **Industrial Waste Water Treatment** at Al-Falah University, Faridabad, India

Undergraduate Projects Supervised

- Three Projects on *Water and Waste water treatment* at Galgotias College of Engineering, Noida, India
- Two Projects on *Water and Waste water treatment* at Al-Falah University, Faridabad, India
- *Extraction and Characterization of Natural Protein (Keratin) from Waste Chicken Feather* at Debre Tabor University, Ethiopia
- *Ethanol Production from Algae* at Debre Tabor University, Ethiopia
- *Production of Antidandruff Shampoo from Natural Raw Material* at Debre Tabor University, Ethiopia
- *Effective Utilization of Asphalt Binder for Waste Plastic* at Debre Tabor University, Ethiopia

Labs handled

- **Heat and Mass Transfer Lab**; Aligarh Muslim University, Aligarh, India, June 2006 - Aug 2008
- **Fluid Mechanics Lab**; Aligarh Muslim University, Aligarh, India, June 2006 - Aug 2008 & Al-Falah University, Faridabad, India, Jan 2014 - Oct 2016
- **Environmental Engineering Lab**; Al-Falah University, Faridabad, India, Jan 2014 - Oct 2016
- **Fluid Machinery Lab**; Debre Tabor University, Ethiopia, Feb 2018 - June 2018
- **Mechanical Unit Operations Lab**; Debre Tabor University, Ethiopia, Sept 2018 - Jan 2019

Laboratory Development

Developed an Environmental Engineering Laboratory for M.Tech. and B.Tech. students at Al-Falah University, Faridabad, Haryana, India.

Computer Skills

- Programming ability: MATLAB, C, C++, Fortran
- Professional Software Packages: Geospatial Modelling Software: Spatial Analysis and Decision Assistance (SADA), Air Pollutant Modelling Software: California Line Source Dispersion Model (CALINE4), MS Office

Countries Visited

Sweden, Norway, Denmark, Austria, Ethiopia

Current Areas of Research

Air Pollution Modelling using Mathematic Models, AERMOD, Fuzzy logic and Neural Network, Water and Wastewater Treatment, Membrane Treatment, Statistical Modelling, Mathematical Modelling

Referees

1. Prof. Farhan A Kidwai, Civil Engineering Department, Jamia Millia Islamia, New Delhi, India
2. Dr. Wakeel Ahmad, Associate Professor, Department of Mathematics, Aligarh Muslim University, Aligarh, India.
3. Dr. Danish Lohani, Associate Professor, Department of Mathematics, South Asian University, New Delhi, India.