

# *Khondkar Ayaz Rabbani*

<b>Education</b>	Murdoch University – Perth, Australia <i>Ph.D. in Environmental Science</i>	2016
	University of Illinois – Urbana-Champaign, USA <i>Masters of Science Degree in Chemistry</i>	2000
	University of Toronto – Toronto, Canada <i>Honours Bachelors of Science Degree in Chemistry</i>	1997
	United World College of the Atlantic – Wales, U.K. <i>International Baccalaureate Diploma (IB)</i>	1992
<b>Work experience</b>	Independent University Assistant Professor School of Environmental Science and Management  <i>Duties included teaching undergraduate and graduate courses in environmental science and chemistry; conducting research in environmental science; responsible for the development of the university chemistry/environmental lab.</i>	2003-present
	Murdoch University Casual Academic staff  <i>Employed as a teaching assistant to undergraduate chemistry courses. Duties included supervising and conducting undergraduate lab courses and assessing students' performance.</i>	2012-2013
	Aventis Pharma Management Trainee  <i>Management trainee at the pharmaceutical plant of Aventis Pharma in Bangladesh training in production, quality control and sales.</i>	2001-2002
	Lab Support Inc. Validation Technician  <i>On placement at the Abbott Diagnostic Division in Abbot Laboratories. Responsible for validation of products according to the Quality System Regulation of the Food and Drug Administration. Validation initiator for common test method to the standards required by the current Good Manufacturing Practice (cGMP) regulations.</i>	2000 - 2001

<b>Publications</b>	Parvin, S, Mazumder, L. T., Hasan, S, Rabbani, K. A., Rahman, M. L., "What should we do with our solid tannery waste?", <u>Journal of Environmental Science, Toxicology and Food Technology</u> , <b>2</b> (4): 82-89.	2017
	Rabbani, K. A., Charles W., Kayaalp A., Cord-Ruwisch, R. and G. Ho (2016). "Biofilter for generation of concentrated sulphuric acid from H <sub>2</sub> S", <u>Environmental Science and Pollution Research</u> , <b>23</b> (16):16781-9.	2016
	Rabbani, K. A., W. Charles, A. Kayaalp, R. Cord-Ruwisch and G. Ho (2016). "Pilot-scale biofilter for the simultaneous removal of hydrogen sulphide and ammonia at a wastewater treatment plant." <u>Biochemical Engineering Journal</u> <b>107</b> : 1-10	2016
	Rabbani, K. A., W. Charles, R. Cord-Ruwisch and G. Ho (2015). "Recovery of sulphur from contaminated air in wastewater treatment plants by biofiltration: a critical review." <u>Reviews in Environmental Science and Biotechnology</u> <b>14</b> (3): 523-534.	2015
	Hasan, S., Rabbani, K. A., Rahman, M. L., Hossain M. A. (2012) Persistent Organic Pollutants and Pesticide Residues in Seasonal Waters of Rural Bangladesh; <u>International Journal of Environment</u> <b>2</b> (1): 41-47.	2012
	Halim, M. A., S. M. Sumayed, R. K. Majumder, N. Ahmed, S. Karmaker and A. Rabbani (2011). "Study on groundwater, river water and tannery effluent quality in southwestern Dhaka, Bangladesh: Insights from multivariate statistical analysis." <u>Journal of Nature Science and Sustainable Technology</u> <b>5</b> (3): 125.	2011
	Rahman, M. O., R. Khondkar Ayaz and T. Rahat Bari (2011). "Slums, Pollution, and Ill Health: The Case of Dhaka, Bangladesh. Megacities & Global Health." <u>Megacities and Global Health</u> by Khan, O. A. and G. Pappas, Washington, DC, USA, APHA Press.	2011
	Begum, B. A., Tazmin, A., Rabbani, K. A., Biswas, S. K., Nasiruddin, M (2009). "Investigation of the sources of particulate matter from the Tajgaon Industrial Area, Dhaka" <u>Journal of Bangladesh Academy of Sciences</u> <b>33</b> (1):71-85.	2009
<b>Presentations/ Conferences</b>	5th International Conference on Coastal and Ocean Engineering (ICCOE 2018)  <i>The effect of increased temperature and coral acclimation of <i>Sinularia dura</i> has been accepted at the 5th International Conference on Coastal and Ocean Engineering (ICCOE 2018) to be held in Shanghai, China.</i>	April, 2018

	<p>25th International Academic Conference, International Institute of Social and Economic Sciences</p> <p><i>Potential of using NZVI as a dye removal method in the context of Bangladesh</i> was presented at the 25<sup>th</sup> International academic conference organized by the International Institute of Social and Economic Sciences at the OECD headquarters held in Paris, France</p>	September, 2016
	<p>Environmental Engineering and Life Systems (EELS) group</p> <p><i>Pollution and Health in a Megacity – the case of Dhaka</i> was presented at the EELS group of the School of Engineering and Information Technology, Murdoch University</p> <p>Biennial Conference of the Asian Studies Association of Australia</p> <p><i>Air pollution in Dhaka: environmental management of a rapidly growing Asian mega city</i> was presented at the 17th Biennial Conference of Asian Studies Association of Australia in Melbourne, Australia.</p>	February, 2012  2008
	<p>Eurasia Conference on Chemical Sciences.</p> <p><i>Quantitative Determination of Lead in Air-Borne Suspended Particulate Matter Using Stripping Voltammetry</i> was accepted for a poster presentation in the 10th Eurasia Conference on Chemical Sciences at Manila, Philippines.</p>	2008
	<p>Singapore International Chemistry Conference</p> <p><i>Determination of Lead, Copper and Cadmium in mixed solutions using Stripping Voltammetry</i> was presented as a poster at the 5th Singapore International Chemistry Conference in Singapore.</p> <p>Journal Club, Independent University (IUB)</p> <p><i>Development of an electrochemical system to measure metals in air borne particulate matter</i> was presented at the Journal Club at the School of Environmental Science and Management (SESM) of Independent University, Bangladesh</p>	2007  2007
<b>Research experience</b>	<p>Murdoch University Graduate Student Researcher</p> <p>Principal Supervisor: <i>Dr. Goen Ho</i> Thesis title: <i>Novel techniques for the recovery of sulphur as useful products from air pollutants using aerobic biofilters</i></p>	2011-2016

	<p>Independent University</p> <p><i>Research on detection and control of pollutants like lead, arsenic and persistent organic pollutants in air and water using chemical analytical methods</i></p>	2002 – 2011
	<p>PURE project</p> <p><i>Part of the team involved in the collaborative study with the Population Health Research Institute, McMaster University on a prospective urban and rural epidemiological study.</i></p>	2007 – 2011
	<p>University of Illinois</p> <p><i>Synthesized and characterized air and moisture sensitive organometallic complexes. Characterization methods included NMR, FT-IR, UV-Vis spectroscopy, and mass spectroscopy.</i></p>	1997 - 1999
<b>Short courses/Workshops</b>	<p>Certificate Course in Teaching for Active Learning</p> <p><i>Completed the program on teaching for active learning conducted by the Foundation for Learning Teaching and Research</i></p> <p>Safety in Science Workshop in the field of Laboratory Safety Awareness</p> <p><i>Completed the program requirements Safety in Science Workshop in the field of Laboratory Safety Awareness organized by Murdoch University</i></p> <p>Safety in Science Workshop in the field of Occupational Safety and Health, Physical and Ergonomics, Research Ethics, Biosafety, Chemical Safety and Fieldwork</p> <p><i>Completed the program requirements Safety in Science Workshop in the field of Occupational Safety and Health, Physical and Ergonomics, Research Ethics, Biosafety, Chemical Safety and Fieldwork organized by Murdoch University</i></p> <p>Introductory Course in Writing about Public Health</p> <p><i>Course organized by Writers Without Borders at Independent University, Bangladesh.</i></p>	<p>2017</p> <p>2012</p> <p>2011</p> <p>2008</p> <p>9-10 April, 2008</p>

	<p>Scientific Methodology and Development of Grant Application</p> <p><i>Workshop organized by the Bangladesh Centre for Advanced Studies (BCAS) and the International Foundation for Science (IFS)</i></p> <p>BAEC-IAEA National Training Course on Arsenic Determination and Quality Control Measures using Nuclear and non-Nuclear Techniques,</p> <p><i>Workshop organized by the Bangladesh Atomic Energy Commission (BAEC) and the International Atomic Energy Agency (IAEA) at the Atomic Energy Centre, Dhaka,.</i></p> <p>Training course on Statistical Process Control</p> <p><i>Training organized by the Business Advisory Services Centre (BASC) at the Aventis Pharma, Bangladesh</i></p> <p><i>Orientation for International Teaching Assistants</i></p> <p>Orientation organized by the University of Illinois at Urbana-Champaign for international students assigned as teaching assistants.</p>	<p>15-21 May, 2004</p> <p>26-30 Jan, 2002</p> <p>12-13 Jan, 1998</p>
<p><b>Scholarships/ Awards</b></p>	<p>Murdoch University</p> <p><i>Awarded the Australian Research Council funded APAI scholarship at Murdoch University in Western Australia in Western Australia for the duration of the PhD.</i></p> <p>University of Illinois Chemistry Scholarship</p> <p><i>Awarded the competitive scholarship for the duration of studies at the University of Illinois.</i></p> <p>Canadian Society for Chemistry Book Prize</p> <p><i>Awarded to the most improved student entering the fourth year of a specialist program in chemistry.</i></p> <p>Community Sports Leader</p> <p><i>Awarded to the Community Sports Leader by the Central Council of Physical Recreation, U.K.</i></p>	<p>2011-2015</p> <p>2011</p> <p>1996</p> <p>1992</p>

	<p>Prince of Wales Scholarship</p> <p><i>Awarded a competitive scholarship for two years study at the United World College of the Atlantic</i></p>	1990
<b>Memberships</b>	<p>Hongkong Chemical, Biological and Environmental Engineering Society (HKCBEEES)</p> <p><i>Senior Member of the HKCBEEES (Member No. 101294)</i></p> <p>Canadian Society for Chemistry</p> <p><i>Associate member of the Canadian society for Chemistry</i></p>	<p>2017</p> <p>1997</p>
<b>Referee</b>	<p>Dr. Goen Ho</p> <p>Emeritus Professor of Environmental Engineering School of Engineering &amp; Information Technology Murdoch University Perth, Western Australia 6155 Telephone + 61 8 9360 2167 Email g.ho@murdoch.edu.au</p> <p>Dr. Wipa Charles</p> <p>Senior Research Fellow School of Engineering and Information Technology, Murdoch University Perth, Western Australia 6155 Telephone +61 8 9360 7407 Email W.Charles@murdoch.edu.au</p>	
<b>Contact</b>	<p>Mailing Address: Apt 5B, House 121, Rd 1, Block F, Banani, Dhaka.</p> <p>E-mail : <a href="mailto:rabbani@iub.edu.bd">rabbani@iub.edu.bd</a>, karabbani@yahoo.com</p>	