

## **SIKDER M SELIMUZZAMAN**

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### **EDUCATION**

- ❖ **Master of Science.** Civil Engineering, King Fahd University of Petroleum & Minerals, Dhahran, 2004-2007  
Specialization: **Environmental Engineering**, Wastewater Treatment  
Thesis title: Treatment of Petroleum Refinery Wastewater using TiO<sub>2</sub> -mediated Photocatalysis
- ❖ **Bachelor of Science. Civil Engineering**, Bangladesh University of Engineering & Technology, Dhaka, Bangladesh, 1993-1998

### **SCHOLASTIC AWARDS**

- ❖ **Research Assistantship** awarded by **Ministry of Higher Education**, Saudi Arabia, Tenure of scholarship was February 2004-February 2007
- ❖ **Technical Scholarship** awarded by Bangladesh University Engineering & Technology, Bangladesh, Tenure of scholarship was March 1993-September 1998

### **JOB EXPERIENCE**

#### ❖ **Employment-01**

Laboratory Engineer (Teaching Assistant), Environmental Engineering Lab., **Qatar University**, Qatar. September 2011 – Present

#### *Tasks/Activities Performed*

1. Teaching B.Sc. Engineering students with Environmental Engineering Experiment:
  - Coagulation and flocculation
  - Adsorption
  - Hardness and alkalinity
  - Solid determination by gravimetric methods
  - Biochemical Oxygen Demand (BOD) and Chemical Oxygen Demand (COD)
2. Teaching B.Sc. Engineering students with Numerical Methods using MATLAB.

#### ❖ **Employment-01**

Engineer II, Center for Environment & Water, Research Institute, **King Fahd University of Petroleum & Minerals**, Dhahran, Saudi Arabia. February 2007 – August 2011

#### *Participation in Client-Funded Projects*

- Environmental Impact Assessment for Exploratory Drilling in EniRepsa Contract Area, North Rub Al-Khali Desert, Saudi Arabia. January 30, 2006 to April 30, 2011
- Environmental Baseline Study: Manifa Central Processing Facilities. July 12, 2007 to January 11, 2008
- Environmental Monitoring for Exploratory Drilling in LUKSAR Contract Area - Block A, North Rub Al-Khali Desert, Saudi Arabia. May 08, 2006 to January 31, 2012
- Environmental Monitoring for Seismic and Exploratory Drilling Operations in EniRepSa Contract Area, Rub Al-Khali Desert, Saudi Arabia. March 28, 2007 to September 28, 2011

- Environmental Monitoring for Exploratory Drilling Operations in SSG Contract Area, North Rub Al-Khali Desert, Saudi Arabia. November 24, 2007 to October 31, 2011
- National Inventory of Anthropogenic Emissions by Sources and Removal by Sinks of Greenhouse Gases Not Controlled by the Montreal Protocol - Year 2000. September 15, 2007 to December 31, 2010
- Baseline Environmental Study for Rabigh Conversion Industrial Park Development Project. November 15, 2008 to May 15, 2009

***Tasks/Activities Performed***

- Writing reports on Environmental Assessment of Surface Soil, Wastewater, and Groundwater
- Writing reports on Baseline Study and Environmental Impact Assessment on Air Quality
- Providing recommendations to the clients for site closure based on assessment results
- Using ISCST3 modeling tool to predict air pollutants concentration as a part of Environmental Assessment
- Participating environmental samples collection, conducting laboratory analysis for physical and chemical parameters, and data analysis

❖ **Employment-02**

Research Assistant (RA), Department of Civil Engineering, **King Fahd University of Petroleum & Minerals**, Dhahran, Saudi Arabia. February 2004– February 2007.

***Job Responsibilities***

- Assisted in teaching and grading of undergraduate courses
- Conducted research on treatment of Pretreated Petroleum Refinery Wastewater using TiO<sub>2</sub> mediated photocatalysis-An applied research project funded by SABIC

***Tasks/Activities Performed***

- Taught in undergraduate classes
- Conducted laboratory analysis, data analysis, and report writing
- Assisted students by preparing solution

***Seminar Conducted***

- *Industrial wastewater treatment using advanced oxidation process* as a part of seminar course
- *Treatment of Petroleum Refinery Wastewater using TiO<sub>2</sub> -mediated Photocatalysis* as a part of public defense

❖ **Employment-03**

Junior Engineer, Shahidullah & Associates Ltd., Dhaka, Bangladesh. January 1999– December 2003

***Tasks/Activities Performed***

Structural design and supervision of building construction, drafting structural elements (column, beam, footing, etc.) using AutoCAD

**TRAINING**

- ❖ **Air Pollution- A Detailed Overview**, Gulf Le Meridien, Al Khobar, Saudi Arabia, January 07-09, 2008, organized by Environmental Technology and Management Association (ETMA)

- ❖ **General Environmental Method of Best Available Techniques**, Gulf Le Meridien, Al Khobar, Saudi Arabia, January 12-14, 2008, organized by ETMA
- ❖ **Laboratory Safety Management**, Qatar University Campus, Qatar, June 09-13, 2013, organized by Qatar University

## **PUBLICATIONS**

- ❖ Vohra, M.S., **Selimuzzaman, S.M.**, and Saleh, M.S. (2010). NH<sub>4</sub><sup>+</sup>-NH<sub>3</sub> Removal from Simulated Wastewater Using UV-TiO<sub>2</sub> Photocatalysis: Effect of Co-Pollutants and pH. *Environmental Technology*
- ❖ Vohra, M.S., **Selimuzzaman, S.M.**, and Saleh, M.S. (2010). Aqueous Phase Thiosulfate Removal Using Photocatalysis. *International J. Environmental Research*

## **RESEARCH INTEREST**

- ❖ Environmental Monitoring, Environmental Impact Assessment (EIA), Baseline study
- ❖ Environmental Modeling
- ❖ Municipal Solid Waste Management, Wastewater Treatment and Reuse

## **PROFESSIONAL AFFILIATION AND MEMBERSHIP**

- ❖ Member, Environmental Technology and Management Association (ETMA)
- ❖ Member, Institute of Engineers Bangladesh

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