

JING LI
***Environmental
Consultant***

AREAS OF SPECIALIZATION

- AutoCAD
- Air and Water Contaminant Modeling
- Water Resources
- Groundwater and Soil Remediation
- Pollution Prevention
- Advanced Water/Wastewater Design and Treatment
- Laboratory Analysis
- Environmental and Health Risk Assessment and Safety
- Hazardous and Solid Waste Compliance & Permitting
- Environmental Site Investigation

EDUCATION

M.S., Environmental Engineering, The University of Arizona, Tucson, AZ
B.S., Applied Chemistry, Northeast Normal University, China

AFFILIATIONS

Arizona Water & Pollution Control Association

<http://www.zmassociates.com>

Ms. Li is an experienced water/wastewater treatment consultant and engineer. She received a Master Degree in Environmental Engineering from The University of Arizona, Tucson, in 2009. Through this academic training, she has mastered a wide range of subjects that are important for an environmental engineer. Additionally, during the past 6 years she has been performing research that requires extensive knowledge in chemistry, physics, biology and mathematical modeling. This research has been focused on developing engineered solutions to environmental problems in water and wastewater treatment, hazardous waste site remediation and air quality.

Ms. Li was the team leader of an advanced water treatment design course. The course project involved the remediation of the Park-Euclid Water Quality Assurance Revolving Fund Site. The work involved Phase 1 and Phase 2 site assessments, data analysis, remediation system design and modeling, report preparation and oral presentation. Ms. Li's duties included comparing alternative wastewater treatment technologies for effectiveness and cost. Also she was the primary writer for the final report.

EXAMPLES OF DIRECTLY RELATED ENVIRONMENTAL PROJECTS

Modeling and Risk Analysis. Ms. Li was involved in the Human health Assessment for hazardous and mixed waste management units at Lawrence Livermore National Laboratory by accomplishing the inventory list according the OEHHA and RSL database, running the air dispersion model, quantifying the carcinogenic and toxic impacts (acute and chronic exposures), and evaluating the risks for different receptors based upon different scenarios.

Air Quality Emission Calculation and Mitigation Support for an Electric Power Line Project-Sunrise Powerlink Project, San Diego Gas & Electric. Ms. Li is in the process of determining emissions from all onroad and offroad equipment involved with construction of the Sunrise Powerlink Project. This includes helicopters, non-conventional construction vehicles, delivery vehicles, and offroad engines being upgraded or retrofitted for the project. ZMassociates will work with contractors to determine emissions compliance, and will submit quarterly reports to the CPUC and the BLM. The Sunrise Powerlink Project is expected to cost \$1.8billion, and will take approximately 18 months to construct.

Groundwater Monitoring. Ms. Li collects quarterly groundwater samples for laboratory analysis for Santa Maria Refining company's groundwater monitoring program. This work generates electronic files for submission to the Regional Water Quality Control Board and DTST GeoTracker on-line data base tool.

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EXAMPLES OF DIRECTLY RELATED COURSEWORK

Water Chemistry for Engineers

The course provides an introduction to primarily aqueous-phase equilibria governing water quality characteristics of interest in potable water supply, wastewater treatment and natural waters. There is some emphasis on equilibria governing inter-phase (gas-liquid, solid-liquid) chemical distribution. Mathematical approaches to prediction of equilibrium chemical speciation are stressed.

Water/Wastewater Treatment System Design

Application of theory and engineering experience to the design of unit operations for the production of potable/waste water. Covers water regulations, conventional treatment technologies and selected advance treatment topics.

Introduction to Hazardous Waste Management

Management, planning, legal and engineering aspects of liquid and solid hazardous waste treatment and disposal.

Air Pollution

This course is to provide a clear, quantitative introduction to the science and technology of atmospheric aerosols for environmental engineers and scientists. Topics include aerosol sources and sinks; basic aerosol properties; single aerosol mechanics; aerosol population dynamics; atmospheric aerosol optics; aerosols and climate; aerosols and health; regional haze; and aerosol measurement techniques.

PUBLICATIONS/PRESENTATIONS

Thesis: "Leaching of Arsenic from Non Iron-Based Sorbents under Anaerobic Conditions". August, 2009.

Long term leaching behaviors of lanthanum-based arsenic-bearing sorbents. March, 2008.

Forward osmosis: Principles and application on wastewater treatment. April, 2008.

EMPLOYMENT HISTORY

08/2009-02/2010: The University of Arizona, Research Associate.

03/2010-Present: ZMassociates, Inc., Environmental Consultant.

HONORS AND AWARDS

Outstanding Graduated Student in Chemistry, Northeast Normal University, China. 1999.

Graduate Registration Scholarship, University of Arizona, 2007-2009.