

**Ali K. Oskouie, PhD**  
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## EDUCATIONAL HISTORY

Illinois Institute of Technology	<b>Ph.D. 1996</b>	<b>Environmental Engineering</b> (Department of Chemical and Biological Engineering)
Post-Doctoral Fellow	<b>1996-1997</b>	<b>American Air-Liquide</b> R&D, Lagrange, IL
University of Michigan, Ann Arbor	<b>M.S.E-1990</b>	<b>Civil and Environmental Engineering</b> (Water Resources and Hydraulics)
Tabriz University (Iran)	<b>BSc (1986)</b>	<b>Civil Engineering</b> (Water Resources and Hydraulics)

## PROFESSIONAL HISTORY

**Research Scientist:** (01/01-Present), *Metropolitan Water Reclamation District of Greater Chicago-Monitoring and Research Department (MWRDGC)*

**Adjunct Professor:** (05/96-Present), *Civil, Architectural and Environmental Engineering, Illinois Institute of Technology-Chicago, Illinois*  
**(Lectured over 22 graduate level classes in Civil& Environmental Engineering and Chemical and Biological Engineering; supervised PhD and MS students; Developed Laboratories: Environmental Processes Lab and Fine (nano-and micro size Particle Technology Lab at IIT)**

**Post-Doctoral Senior Research Associate:** (6/96-6/97) *American Air-Liquide-R&D, Illinois, and Illinois Institute of Technology, Department of Chemical and Environmental Engineering*

**Technical Consultant:** (12/93-5/96) - *Amherst Process Instruments Inc. (API). Amherst, Massachusetts.*

**Teaching and Research Assistant:** (1/91-5/96) *Illinois Institute of Technology. Pritzker Department of Environmental Engineering*

**PROFESSIONAL ACTIVITIES AT THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (District) (2001-Present)**



## **PATENTS**

1. “Apparatus for generating aroma upon electrical signal”. (*US Patent # 6,004,516 was issued, Published in Washington Post, Science Section, Nov.22,1999)- Advanced Research Work performed at the Illinois Institute of Technology*)
2. “Apparatus for generating aroma upon electrical signal”. (*US Patent# 6,548,025)- Advanced Research Work performed at the Illinois Institute of Technology*)
3. Provisional Patent on Aroma Technology –*Illinois Institute of Technology- Filed- 2018*

## **PARTNERSHIP DEVELOPMENT**

Partnership program (Research and Educational) with Department of Water Management(Water Treatment Plant), City of Chicago  
Research Collaborations with Ottawa Gen7 Technology

Low-energy Nutrient Removal at the MWRD-Chicago (Accepted for publication in WEF Proceedings-New Orleans, 2016)

**Barber L., Loyo-Rosales J, Rice C, Minarik, T, Oskouie A.** Endocrine Disrupting Alkylphenolic Chemicals and Other Contaminants in Wastewater Treatment Plant Effluents, Urban Streams, and Fish in the Great Lakes and Upper Mississippi River Regions; *Science of Total Environment*, 517 (2015), 195-206

**Oskouie A., Lordi D., Granato T., Kollias, L.** Plant Specific Correlations to Predict the Total VOC Emissions from Wastewater Treatment Plants. *Atmospheric Environment*, 42, 4530-4539, (2008).

**Oskouie A., Wang H-C. Noll K. E.** On the drag coefficient for calculating the calibration curves for API Aerosizer. (*Presented at the 15th Annual Meeting of American Association for Aerosol Research (AAAR) in Orlando-Florida, 1996*).

**Oskouie A., Wang H-C., Noll K.E.** Theoretical study on simultaneous determination of particle size, density and shape factor using time-of-flight sizers. (*Presented at the 14th Annual Meeting of American Association for Aerosol Research (AAAR) in Pittsburgh, 1995*).

## **BOOKS**

**Noll K.E., Oskouie A.** (1999) Solutions Manual for Fundamental of Air Quality Systems (*Design of Air Pollution Control Devices*), American Academy of Environmental Engineers.

## **EDITORIAL and PEER REVIEW BOARD MEMBER:**

Co-editor of fluid-particle interactions symposiums (American Institute of Chemical Engineers, AIChE, (1999)  
Water Environment Research (2001-2012)  
Environmental Science and Technology (2003-2010)  
ASCE, Journal of Environmental Engineering (2003-2012)  
Journal of Atmospheric Environment (2004-present)  
Journal of the Air & Waste Management Association (2004-2014)  
Aerosol Science and Technology (2005-2010)  
International Journal of Environmental Science and Technology (IJEST) (2005-present)  
Chair (session), AIChE World Congress on Numerical Simulation of Fluid/Particle Flow Systems (2006)  
WERF- Issue Area Team member for Optimization of Wastewater, and Solids Operations (2006-2009)  
Fluids Journal (MDPI)  
Water Journal (MDPI)  
Sustainability Journal (MDPI)  
WE&RF LIFT-Link reviewer

Contributor to four volumes of Energy Management Protocols by WERF

Basic Practices for Sustainable wastewater Treatment: Initial case Study Incorporating European Experience and Evaluation Tool Concept, 2010  
Optimization of wastewater And Solids Operations: demonstration of the Life Cycle Assessment Manager for Energy Recovery Tool, 2010  
Energy efficiency in wastewater Treatment in North America: A compendium of Best Practices and Case Studies of Novel Approaches, 2010  
Energy efficiency in value Engineering; barriers and Pathways, 2010  
Overview of State Energy Reduction Programs and Guidelines for the wastewater Sector,

WERF LIFT member on control of odors due to biological activities in wastewater treatment systems (2014-present)

**PROFESSIONAL SOCIETIES, COMMITTEES AND HONORS**

Member WEF –Water Environment Federation

NACWA (National Association of Clean Water Agencies)

WEF: LIFT-Link

MWRDGC Microconstituents Committee Member (2005-2010)

Served on the oral exam panel for selection of Research and Technical Manager for Metropolitan Water Reclamation District of Greater Chicago, 1997