Angela J. Ahrendt

625 N. Edgelawn Dr., Aurora, IL 60506 630-546-4982 ajahrendt@gmail.com

EDUCATION

Ph.D. in Chemistry and Biochemistry – May 11, 2002 Northern Illinois University, DeKalb, IL 60115

 Ph.D. Dissertation: Nuclear Magnetic Resonance Properties of the Metmyoglobin-4-nitroimidazole Complex and the pH Dependence of Ligand Binding to the FixL Heme-binding Domain, Dr. James Erman as Research Advisor

B.S. in Chemistry – January 1990 University of Illinois at Urbana-Champaign, Urbana, IL 61801

Associate Degree in Science – May 1987 Olney Central College, Olney, IL 62450

TEACHING EXPERIENCE

Illinois Mathematics and Science Academy, Aurora, IL Chemistry Faculty – August 2015 to present

National University of Health Sciences, Lombard, IL Adjunct Professor – May 2010 to August 2015

Waubonsee Community College, Sugar Grove, IL

Chemistry Instructor – August 2007 – May 2010

Adjunct Chemistry Instructor – Spring 2007, Spring 2003, and Summer 2003

Benedictine University, Lisle, IL

Adjunct Chemistry Instructor – Spring 2007

Highland Community College, Freeport, IL

Online Adjunct Chemistry Instructor - Spring 2006, Fall and Spring 2005, Spring 2004, and Spring 2003

Elgin Community College, Elgin, IL Adjunct Chemistry Instructor - Spring 2003

Kishwaukee College, Malta, IL Chemistry Instructor - August 2001 to May 2002

Northern Illinois University, DeKalb, IL Teaching Assistant - Fall 1996 to Spring 2000 Argonne National Laboratory, Argonne, IL

Protein Biochemist and Molecular Biologist – August 2010 to August 2015

Protein Biochemist – November 2003 to August 2007

Amoco Research Center, Naperville, IL Research Technician – October 1990 to August 1996

Sherwin Williams Research Center, Chicago, IL Chemist – January 1990 to October 1990

U.S. Army Construction Engineering Research Lab, Champaign, IL *Research Assistant* – August 1988 to December 1989

Northern Illinois University, DeKalb, IL Research Assistant - Fall 1996 to Spring 2001

AWARDS

- Outstanding Woman Student Award, NIU Presidential Commission on the Status of Women (2001)
- Dissertation Completion Award, NIU Graduate School (2000)
- John D. Graham Scholarship, NIU Chemistry Department (1999)
- Weber Medical Clinic Award, Olney Central College (1987)
- James S. Spencer Scholarship, Olney Central College (1985)
- East Richland High School Class Valedictorian (1985)

PUBLICATIONS

- A New Suite of Plasmid Vectors for Fluorescence-Based Imaging of Root Colonizing Pseudomonads Wilton R, Ahrendt AJ, Shinde S, Sholto-Douglas DJ, Johnson JL, Brennan MB, and Kemner KM. Frontiers in Plant Science. 2018; 8, 2232.
- pH Dependence of Cyanide and Imidazole Binding to the Heme Domains of *Sinorhizobium meliloti* and *Bradyrhizobium japonicum* FixL Bidwai AK, Ahrendt AJ, Sullivan JS, Vitello LB, and Erman JE. Journal of Inorganic Biochemistry. 2015; 153, 88 102.
- Differential Protein Expression in the Metal-Reducing Bacterium Geobacter metallireducens Grown with Ferric Citrate or Nitrate Ahrendt AJ, Tollaksen SL, Zhu W, Yates JR 3rd, Nevin KP, Lovley DR, and Giometti CS. Proteomics. 2006; 6, 632 – 640.
- Large-scale μLC-MS/MS for silver- and Coomassie blue-stained polyacrylamide gels
 Zhu W, Venable J, Giometti CS, Khare T, Tollaksen S, Ahrendt AJ, Yates JR 3rd. Electrophoresis. 2005
 Dec; 26(23):4495-507.

Science Olympiad Coach; Illinois Mathematics and Science Academy – Fall 2016 to present

PROMISE Program Science Teacher; Illinois Mathematics and Science Academy – Fall 2017 to present

ComEd Seed Fund Grant Recipient for "Fluorescence Spectroscopy for Biodiesel Characterization and Ethanol Production" – April 2017

Judged at Skyway Conference STEM Poster Competition – April 2015

Led Activities for Girls at Argonne's Science Careers in Search of Women - April 2015

Poster Presentations

- American Society for Microbiology 2006: Comparative Proteome Analysis of Geobacter sulfurreducens PCA and Geobacter metallireducens GS-15
- American Society for Mass Spectrometry 2006: Time-of-Flight Mass Spectrometry for the Identification of c-type Cytochromes from *Geobacter* Species
- American Society for Microbiology 2005: A Novel Strategy for the Detection, Isolation and Identification of c-type Cytochromes from Geobacter sulfurreducens