

KAREN D'ARCY

WORK ADDRESS AND PHONE

College of Arts and Sciences
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EDUCATION

Ph.D. Environmental Sciences and Resources/ Chemistry, Portland State University, Portland, Oregon; 1986. Ph.D. Thesis: "Electrochemical Methods for Speciation of Inorganic Arsenic."

B.A. Chemistry, University of Northern Colorado, Greeley, Colorado; 1979.

EXPERIENCE

Interim Chair, Division of Chemistry and Biological Sciences, Governors State University, Fall 2014 to present.

Interim Dean, College of Education, Governors State University, Summer 2013 to Summer 2014.

Interim Dean, College of Arts and Sciences, Governors State University, Summer 2010 to Summer 2011.

Chair, Division of Science, Governors State University, Summer 2004 to Summer 2010. Responsibilities include faculty and staff supervision; oversight of curriculum development in biology, chemistry, computer science, mathematics, astronomy, physics; schedule development; budgeting; planning; faculty and staff evaluation; adjunct and tenure track faculty and staff hiring; external relations with accreditation organizations; articulation agreements; program development; resolution of student issues; etc.

Temporary Acting Chair, Division of Science, Governors State University, Fall 2002 to Spring 2003. Responsibilities include faculty and staff supervision; oversight of curriculum development in biology, chemistry, computer science, mathematics, astronomy, physics; schedule development; budgeting; planning; faculty and staff evaluation; adjunct faculty hiring; external relations with accreditation organizations; articulation agreements; program development; resolution of student issues; etc.

Professor of Analytical Chemistry, Governors State University; 1984 to present, awarded tenure in 1991: Responsibilities include classroom and laboratory instruction, curriculum development and supervision of student research. Teaching assignments include graduate courses in electrochemistry, solution equilibrium theory, water quality, aquatic systems, special topics, methods development and radiochemistry. Undergraduate teaching assignments include introductory organic chemistry, analytical chemistry, environmental chemistry, environmental studies, energy, resources and society, and introductory chemistry.

Chemistry Coordinator, Governors State University; 1990 to Summer 2004: Responsibilities include curriculum review, equipment budget and acquisition, course scheduling, faculty workload review, supervision of graduate assistants and work study students, classroom and laboratory assignments, secondary academic advisor, reporting to external accrediting bodies, strategic planning, American Chemical Society certification, representative on College of Arts and Sciences coordinator committee.

Faculty Research Leave Appointment, Argonne National Laboratory, 1994: Responsibilities included collaboration and experimental evaluation of new, novel ion exchange and chelating resins designed for treatment of mixed waste and hazardous waste. Earned certifications for radiation Worker I and Radiation Worker II.

Teaching Assistant, Portland State University, Portland, Oregon, 1979-1984: Responsibilities include laboratory and recitation instruction, and operation and maintenance of departmental NMR spectrophotometers. Teaching assignments included general chemistry, analytical chemistry, organic chemistry, instrumental analysis, and spectrochemistry laboratories.

Research Assistant, Department of Pathology, Oregon Health Sciences University, Portland, Oregon; 1981: Analyzed physiological samples for heavy metals in occupational exposure study.

AWARDS

Governors State University Faculty Excellence Award: 1987.
Governors State University Faculty Excellence Award: 1997.
Governors State University Faculty Excellence Award: 1999.
Governors State University Dr. Gerald C. Baysore Award: 2009.

GOVERNANCE (selected)

Governors State University Faculty Senate President, January, 1997-September 2000.
Co-Chair, Governors State University Strategic Planning Committee, 2000/2001
Co-Chair, Governors State University Strategic Planning Steering Committee, PBAC Strategy 2015, 2007-2008

PUBLICATIONS

Karen D'Arcy and Bobby Lathan, In-House Technicians Training Program at Rhone-Poulenc Basic Chemicals, *Journal of Chemical Education*, **70**, 1010-1013, (1993).

R. Chiarizia, J.R. Ferraro, **K.A. D'Arcy** and E. P. Horowitz, *Solvent Extraction and Ion Exchange*, **13**(6), 1063 (1995).

R. Chiarizia, **K.A. D'Arcy**, E.P. Horowitz, S.D. Alexandratos and A.W. Trochimczuk, Uptake of Metal Ions by a New Chelating Ion Exchange Resin. Part 8: Simultaneous Uptake of Cationic and Anionic Species, *Solvent Extraction and Ion Exchange*, **14**(3), 519-542 (1996).

R. Chiarizia, E.P. Horowitz, **K.A. D'Arcy**, S.D. Alexandatos, and A.W. Trochimczuk, Uptake of Metal Ions by a New Chelating Ion Exchange Resin. Part 9: Silica Grafted Diphosphonic Acid, *Solvent Extraction and Ion Exchange*, **14**(6), 1077-1100 (1996).

PAPERS PRESENTED

K. D'Arcy, G. Lyon, L. Zayed, G. Alexander, J. Schmidt, High School Students as Analysts: the Governors State University Penny Project, *American Chemical Society Great Lakes Regional Meeting*, Loyola University, May 2003.

K.D'Arcy, J.Addison, J.Yunger, B.Ramirez, Model Student Environmental Contract Laboratory, *FACSS*, October 2001, Detroit.

K. D'Arcy, J. Mendelson, The Benefits of Discharge in an Urban Stream, Thorn Creek a Case Study, *Illinois Association of Wastewater Agencies*, August 2001, St. Charles.

R. Chiarizia, E.P. Horowitz, **K.A. D'Arcy**, S.D. Alexandratos, and A.W. Trochimczuk, Uptake of Actinides and Other Ions by Diphosil, a New Silica-Based Chelating Ion Exchange Resin, *IEX 1996*.

K.A. D'Arcy and D.K. Roe, Detection of Evolved Hydrogen During Electrochemical Reduction of Arsenic (III), 21st American Chemical Society Central Regional Meeting, John Carroll University, Cleveland, Ohio, May 31 - June 2, 1989.

K.A. D'Arcy and D.K. Roe, Speciation of Inorganic Arsenic by Cathodic Stripping Voltammetry, West Coast Water Chemistry Workshop, January 1, 1984.

GRANTS AND CONTRACTS

NSF-ARI-ARRA: Biology Research Laboratories at Governors State University (NSF ARI #0963457, 2009, **K. D'Arcy**, P. Klingensmith, T. Gsell, M. Carrington, R.

Druzinsky. \$2.3 million award for renovation of 8000 sq.ft. of biology research labs. Project completes in fall 2013.

CPATH CB: Content and Context: Building Collaborative Partnerships in Higher Education and Industry (NSF CPATH), 2007, **K. D’Arcy (PI)**, X. Tang, S. Park, and L. Phaire-Washington. \$150,000 award in partnership with Joliet Junior College and Argonne National Laboratory, #0722301. <http://cointeg.cs.govst.edu/CBTeam/index.html>

BPC-DP: Collaborative and Integrative Environment for Computer Science Programs (NSF BPC #0540486) 2005, X. Tang (PI), K. D’Arcy, C. Kersey.

Model Student Environmental Contract Laboratory, National Science Foundation Course, Curriculum, and Laboratory Improvement (NSF-CCLI), 2000, **K. D’Arcy (PI)**, J. Addison, J. Yunger, B. Ramirez. Acquire Atomic Absorption Spectrometer with graphite furnace and computer automation, autosampler for GC/MS, and digester to equip facsimile of professional environmental contract lab. Improve student learning in CHEM 505/506 Environmental Chemistry. Provide environmental analysis services to local junior and senior high school students and teacher, role playing as clients of contract lab. NSF-CCLI award \$99,700, \$240,000 project total. <http://www.ehr.nsf/PIRSWeb/Doc/088831.htm>

A Regional WWW-Based FT-NMR for Chemistry Curriculum Improvements, National Science Foundation Course, Curriculum and Laboratory Improvement (NSF-CCLI), 1999, Gregory Moehring (PI), S. Kumar, S. Diab, J. Selbka, S. Park, J. Addison, **K. D’Arcy**. Develop remote access FT-NMR facility at GSU in partnership with University of St. Francis and South Suburban College, \$100,000 award, \$230,000 project total. <http://www.ehr.nsf/PIRSWeb/Doc/9950554.htm>

Thorn Creek Watershed Planning Workshop, Illinois Department of Natural Resources, C2000 \$10,000, February 24 and 25, 2000, Governors State University, **K. D’Arcy** and J. Mendelson.

Pilot Study of Stream Flow in Plum Creek, Thorn Creek Ecosystem Partnership, Illinois Department of Natural Resources, C2000 FY00, \$5,900, **K. D’Arcy**.

Phone Poulenc Basic Chemicals Company, Chicago Heights, Illinois; 1987-1989; \$190,000. **K. D’Arcy**, E. Cehelnik, Educational program using chemistry faculty designed to retrain fourteen laboratory technicians. Developed curriculum and delivered six courses in the area of mathematics, chemistry, and computer science.

ENSR Corporation, Acton Massachusetts; 1988-1990; \$17,000. **K. D’Arcy**. Operated USEPA ME-35 Acid Modes acid precipitation monitoring station. Recruited and supervised students operators.

INTERNALLY FUNDED PROJECTS

“Synthesis of Toluene Degradation Products,” Governors State University Mini-Grant; 1989; \$800.

“Cathodic Stripping Analysis of Inorganic Arsenic with Codeposition of Copper, Selenium, or Nickel at a Mercury Thin Film Electrode,” Governors State University Alumni Foundation; 1986; \$2000.

“Interface for Computer Assisted Electrochemistry,” Governors State University Alumni Foundation; 1988, \$1,530.

“Synthesis of Toluene Degradation Products,” Governors State University Research Grant; 1990/1991; \$2000.

SOCIETY MEMBERSHIP

American Chemical Society, Analytical Division

COMMUNITY SERVICE:

Chair, Thorn Creek Ecosystem Partnership: 1998 to 2013.

Chairman of the Board: Land Conservancy of Will County: 2012 to present.

<http://www.willconserve.org/>

Member: Land Conservancy of Will County: 2005 to present.

RiverWatch Volunteer.

Academic or community representative on a variety of public planning efforts.