



CURRICULUM VITAE

DENNIS D. LANE

N.T. Veatch Distinguished Professor of Civil Engineering

Name: Dennis Del Lane

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Education:

University of Illinois Urbana, Illinois	BSGE, 1972
University of Illinois Urbana, Illinois	MS, 1973
University of Illinois Urbana, Illinois	Ph.D., 1976

Academic Experience:

1976-1981	Assistant Professor of Civil Engineering University of Kansas, Lawrence, Kansas
1981-1987	Associate Professor of Civil Engineering with tenure University of Kansas, Lawrence, Kansas
1983-1984	Acting Assistant Dean, School of Engineering University of Kansas, Lawrence, Kansas
1986-1991	Director, Air-Ecosystem Interactions Research Laboratory (AEIRL) Center for Research, Inc., University of Kansas, Lawrence, Kansas
1987-1993	Professor of Civil Engineering University of Kansas, Lawrence, Kansas

Academic Experience: (continued)

- 1988-1997 Member, Board of Trustees
Center for Research, Inc.
University of Kansas, Lawrence, Kansas
- 1988-1993 Member, Executive Committee
Center for Research, Inc.
University of Kansas, Lawrence, Kansas
- 1995-2000 Chairman, Environmental Studies Advisory Board
- 1990-Present Director, Environmental Engineering & Science Graduate Program
University of Kansas, Lawrence, Kansas
- 1992-Present Director, Environmental Engineering & Science Research Laboratory
Center for Research, Inc.
University of Kansas, Lawrence, Kansas
- 1993-Present N.T. Veatch Distinguished Professor of Civil Engineering
University of Kansas, Lawrence, Kansas
- 2001-2006 Spahr Professor of Engineering
- 2002 Miller Faculty Scholar
- 2002-Present Associate Director, University of Kansas Center for Science Education
- 2003-2009 Co-Director, Education Division, Center for Environmentally Beneficial Catalysis
- 2003-2009 Co-Director, The Institute for Environmental Research, KUCR Designated Center
- 2006-2014 Associate Director, Research Operations and Education, Transportation Research Institute

Administrative Appointments: (Representative List)

- 1976-1980 Department of Civil Engineering Curriculum Committee, Chairman - 1979
- 1976-1981 School of Engineering Curriculum Committee, Chairman
- 1977-1979 University of Kansas Honor Society of Phi Kappa Phi, President - 1979,
Vice-President - 1978, Chairman of Fellowship Committee - 1977
- 1978-1979 Technical Conference Chairman for Midwest Air Pollution Control Association
- 1979-1980 Program Chairman of the Midwest Air Pollution Control Association
- 1979-1981 Civil Engineering Department Faculty Secretary
- 1979-1983 University Biohazards Committee, Chairman - 1980-1983

Administrative Appointments: (Representative List) (continued)

- 1982-1986 Engineering Senate Executive Committee (Nominated and Elected by the Engineering Faculty), Secretary - 1982, Chairman - 1985
- 1984-Present Air & Waste Management Association, Higher Education Committee, Member
- 1984-1986 Dean of Engineering Search Committee
- 1984-1992 Air & Waste Management Association, Acid Rain Technical Committee, Member
- 1985-1995 Air & Waste Management Association, Air Toxics Technical Committee, Member
- 1985-Present Standard Methods Committee (APHA, AWWA, & WPCF)
Joint Task Group on Volatile Organic Acids, Member
Joint Task Group on Asbestos, Member (Chair - 1998)
- 1987-1989 School of Engineering Promotion and Tenure Committee
- 1989-1990 School of Engineering Sabbatical Leave Committee, Chairman
- 1990-1992 Chemical Engineering Department Faculty Search Committee, Member
- 1990-1993 Search Committee for the Director of the Environmental Training and Education Center, Member
- 1990-1993 University Council, University of Kansas
- 1991-1992 Air & Waste Management Association
Local Technical Committee for The Kansas City Annual Meeting and Exhibition, Member
- 1991-1992 University Committee on Organization and Administration, Chairman
- 1991-1992 Environmental Health Engineering & Science Graduate Program Faculty Search Committee, Chairman
- 1992-1993 University Committee on Academic Procedures & Policies, Member
- 1992-1996 State of Kansas Pollution Prevention Conference Advisory Board, Member
- 1992-2000 Center for Environmental Education and Training National Advisory Board, University of Kansas, Member
- 1993-1996 Engineering Senate Parliamentarian
- 1993-1999 Air & Waste Management Association, Optical Remote Sensing Division Technical Committee, Member
- 1993-1995 School of Engineering Promotion and Tenure Committee, Chairman

Administrative Appointments: (Representative List) (continued)

- 1994-1995 Center for Environmental Education and Training Program Manager Search Committee, Member
- 1994-1995 Environmental Studies Program Director Search Committee, Member
- 1995-1997 Distinguished Professor's Steering Committee, Member
- 1995-Present Committee on the Environment, University of Kansas, Member
- 1995-Present Air & Waste Management Association's Latin America ERG Program, Member
- 1995-Present Air & Waste Management Association's Latin American ERG Working Group, Member
- 1995-Present Study Abroad Program, Latin America Faculty Advisor
- 1996-Present Science Review Committee, U.S. Environmental Protection Agency
- 1996-2008 Self Graduate Fellowship Board of Trustees, Member
- 2002 Environmental Studies Program Director Search Committee, Member
- 2003 Department of Civil, Environmental, and Architectural Engineering Chair Search Committee, Chair
- 2004-Present Sustainability Task Force, Member
- 2004-2008 Department of Civil, Environmental, and Architectural Engineering Faculty Search Committee, Chair
- 2004-Present Faculty Advisory Board - Dean of the Graduate School, Member
- 2006-Present Task Force on Education, Senator Roberts Advisory Committee, Member
- 2012-Present Dean of Engineering Search Committee, Member
- 2016-2018 School of Engineering Promotion and Tenure Committee
- 2016-2018 School of Engineering Faculty Rights and Privileges Committee
- 2017-2018 Department of Civil, Environmental and Architectural Engineering Water Resources Faculty Member Search Committee, Member
- 2017-2018 Department of Civil, Environmental and Architectural Engineering Environmental Faculty Member Search Committee, Member

Peer Reviewer Service:

- 1980-Present American Industrial Hygiene Association Journal
- 1982-Present Journal of Separation Science and Technology

- 1983-Present Water Resources Research Council, Department of the Interior, Washington, D.C.
- 1984-Present National Research Council
- 1984-Present National Science Foundation
- 1987-Present Proceedings, EPA/APCA International Symposium on the Measurement of Toxic and Related Air Pollutants

Peer Reviewer Service: (continued)

- 1988-Present Journal of the Environmental Engineering Division, American Society of Civil Engineers
- 1988-Present Proceedings, Air and Waste Management Association
- 1990-Present Journal of the American Water Works Association
- 1990-Present Aerosol Science and Technology
- 1991-Present Journal of the Air and Waste Management Association
- 1991-Present Environmental Science & Technology
- 1996-Present U.S. Environmental Protection Agency, Office of Research Support, Washington, D.C.
- 1998-Present Applied Industrial Hygiene Association Journal
- 2000-Present Environmental Toxicology and Chemistry
- 2001-Present Atmospheric Environment
- 2003-Present Environmental Conservation
- 2006-Present Chemical Engineering
- 2006-Present Water Environment Research
- 2006-Present International Journal of Environment and Pollution

Awards and Special Recognition:

- 1972-1973 University of Illinois Fellow, Urbana, Illinois
- 1980, 1981, 1982 Nominated for Gould Award as Outstanding Engineering Educator
- 1983 Finalist for Gould Award as Outstanding Engineering Educator
- 1984 Cited in Who's Who in Frontier Science and Technology
- 1987 Miller Professional Development Award for Distinguished Service to Engineering Research
- 1989 Miller Professional Development Award for Distinguished Service to Engineering Professional Development
- 1988-1993 Member, Board of Scientific Counselors, Agency for Toxic Substances and Disease Registry, Department of Health & Human Services, Washington, D.C.

Awards and Special Recognition: (continued)

- 1988-2000 Member, Technical Program Committee, International Symposium on Measurement of Toxic and Related Air Pollutants, U.S. EPA
- 1989-1999 Member, Scientific Advisory Board, Mayhew Environmental Training Associates (META)
- 1990-Present Member, Environmental Protection Work Group, Lawrence-Douglas County Health Department
- 1990-Present Advisory Board, Environmental Studies Program at the University of Kansas (Chairman: 1996 - 2000)
- 1991 U.S. Environmental Protection Agency Award for Research Excellence
- 1991 Cited in Who's Who in the Midwest
- 1991-1993 Invited Faculty Participant, The Rockefeller Foundation Fellowship Program in the Humanities: The Program in Nature, Culture, & Technology
- 1992 Cited in Citation's Who's Who Environmental Registry
- 1992-1993 Appointed to the Subcommittee on Great Lakes Applied Research, U.S. Public Health Service
- 1993 U.S. Environmental Protection Agency Bronze Medal for Research Achievements
- 1993 Cited in Who's Who in American Education
- 1993-1999 Member, Faculty Advisory Council, National Center for Environmental Education and Training
- 1993 Cited in American Men & Women of Science
- 1994 Cited in Who's Who in the World
- 1994-1999 Member, Board of Directors, National Center for Environmental Education and Training
- 1994 Cited in Who's Who in America
- 1995 Cited in Who's Who in Science and Engineering
- 1995 Kansas Pollution Prevention Advisory Board
- 1995 Cited in Who's Who in the World
- 1995 Advisory Board - 45th Annual Environmental Engineering Conference
- 1996 Advisory Board - 46th Annual Environmental Engineering Conference

Awards and Special Recognition: (continued)

1996	Cited in International Who's Who
1996	Cited in American Men and Women of Science
1996-2000	Joint Senate and House of Representatives Task Force on Retail Wheeling, Member
1997	Cited in Who's Who in Science and Engineering
1997	Cited in Strathmore's Who's Who
1997	Gould Award Nominee
1998	Board of Trustees, Member, Madison and Lila Self Graduate Fellowship
1999	Gould Award Nominee
2000	Nominated for the Self Graduate Fellowship Outstanding Mentor Award
2001	Spahr Professor of Engineering
2002	Miller Faculty Scholar
2008	<u>Environmental Science & Technology</u> , Excellence in Review Award
2009	<u>Environmental Science & Technology</u> , Excellence in Review Award
2011	Next Generation Science Standards Development, National Research Council Committee
2012	Leading Light Award – Symbolizes leadership in research and scholarly activities, University of Kansas, Office of the Provost
2017	Bellows Scholar
2017	Fellow – American Society of Civil Engineers (2017)

Membership in Professional Organizations:

1. The Honor Society of Phi Kappa Phi, Member
2. Air and Waste Management Association, Member
3. American Society of Civil Engineers, Member
4. International and American Society of Aerosol Researchers, Member
5. Tau Beta Pi National Engineering Honor Society, Member
6. American Association for the Advancement of Science, Member
7. Association of Environmental Engineering Professors, Member

8. Chi Epsilon Civil Engineering Honor Society, Member

Membership in Professional Organizations: (continued)

9. Phi Beta Delta - The Honor Society for International Scholars
10. American Chemical Society

Teaching Experience:

<u>Subject</u>	<u>Academic Year</u>
Air Pollution	1976-Present
Advanced Air Pollution Control	1978
Senior Design Course in Water Supply and Sewerage Treatment	1978-Present
Physical Principles of Environmental Engineering Processes	1976-Present
Introduction to Environmental Pollution Control	1978-Present
Environmental Assessment	2006-Present

<u>Subject</u>	<u>Academic Year</u>
Solid Waste	1978
Environmental Quality	1984-Present
Graduate Student Environmental Health Seminar	1984-1986

<u>Short Courses</u>	<u>Academic Year</u>
Air Quality	1991-present
Water Quality and Hazardous Waste Management	1991-present

Practical Experience:

- 1977-1988 Consultant on Air Pollution Control Equipment for the Law Offices of Hershberger, Patterson, Jones and Roth, Wichita, KS
- 1977-1992 Consultant on Air Pollution for the State of Kansas Attorney General, Topeka, KS
- 1978-1993 Consultant on Fugitive Dust Air Pollution Emissions for Midwest Research Institute, Kansas City, MO
- 1985-1996 Consultant on Air Toxics Monitoring for the U.S. Environmental Protection Agency, Region VII, Kansas City, KS
- 1993-2000 Consultant on Environmental Engineering Matters for Black & Veatch, Kansas City, MO
- 1995-Present Consultant on Air Pollution Control for LABCONCO, Inc., Kansas City, MO
- 2006-Present Consultant to Boston Scientific, Corp.
- 2006-Present Consultant on aerosol science matters for AlburtyLab, Inc., Drexel, MO
- 1998-Present Consultant on Ambient Air Monitoring Procedures for PM for Midwest Research Institute, Kansas City, MO

Funded Research:

- 1/77-1/78 Principal coordinator for particulate air pollution research conducted in the Fairfax Industrial District, Kansas City, KS, by The U.S. Environmental Protection Agency, Region VII, \$9,000.
- 1/78-8/78 "The Evaluation of High Ozone Concentrations in Lawrence, Kansas," State of Kansas Department of Health and Environment, Topeka, KS, \$14,000.
- 4/78-8/78 "Theoretical Modifications to the Fugitive Dust Emission Factor," Midwest Research Institute, Kansas City, MO, \$14,000.
- 4/79-12/84 "The Evaluation of Chemical Dust Suppressants for Mine Haul Roads," Midwest Research Institute, Kansas City, MO, \$20,100.
- 5/79-8/79 "Writing of the Hydrocarbon Standards for the State of Kansas," State of Kansas Department of Health and Environment, Topeka, KS, \$16,000.
- 11/79-10/80 "The Evaluation of Air Samples to Determine Possible Hazardous Emissions from a Continuous Extrusion Cooker Due to Hydrochloric Acid Additions," Quaker Oats, Inc., Lawrence, KS, \$26,000.
- 1/80-5/81 "The Evaluation of Wind Erosion Tests Using a Portable Wind Tunnel," Midwest Research Institute, Kansas City, MO, \$38,000.
- 5/80-12/80 "Chemical Dust Suppressant Evaluation," ARCO Chemical Company, New York, \$22,000.
- 11/80-12/81 "An Evaluation of the KU Hazardous Waste Situation-Sources, Storage and Ultimate Disposal," Board of Regents, University of Kansas, \$15,150.
- 11/80-6/83 "Transport Modeling of an Agricultural Herbicide," Department of Interior, Washington, D.C., \$17,100.
- 2/81-6/81 "Laboratory Testing of the Horizontal Elutriator Under Simulated Windy Conditions," U.S. EPA, Washington, D.C., \$5,500.
- 11/81-6/83 "Evaluation of Computer Simulation Models for Nonpoint Source Agricultural Runoff," Department of Interior, Washington, D.C., \$10,100.
- 5/82-8/83 "Cyclonic Separator Inhalable Particulate Sampler Testing," U.S. EPA, Washington, D.C., \$7,100.
- 8/82-7/83 "Diffusion of Atrazine Through Eastern Kansas Soil (A Laboratory Study)," State of Kansas, Topeka, KS, \$6,200.
- 7/83-6/85 "A Study of Pesticide Transport Mechanisms," Department of Interior, Washington, D.C., \$32,000.
- 2/84-3/88 "Development of Improved Microbial Strains for Anaerobic Digestion of MSF and Waste Water," Department of Energy, Washington, D.C., \$272,000.

Funded Research: (continued)

- 6/84-4/85 "The Effects of Overland Flow on Interstitial Water Uptake of a Herbicide," Department of Interior, Washington, D.C., \$17,100.
- 1/85-4/88 "Micros, Modeling and the National Environment," Funded by the Innovation in Education Program, Kansas University Endowment Association, Lawrence, KS, \$32,700.
- 6/85-7/86 "Water Quality Parameters at a Forested Eastern Kansas Site and Their Relationship to Acidic Deposition," State of Kansas, Topeka, KS, \$6,800.
- 6/85-1/86 "Whole-Air Sampling as a Method for Volatile Organic Compound Determination," U.S. EPA, Region VII, Kansas City, KS, \$33,000.
- 7/85-6/86 "Flow Through Effects of Acid Deposition on a Forested Ecosystem," University of Kansas, Lawrence, KS, \$7,100.
- 1/86-1/87 "Whole-Air Sampling as a Method for Volatile Organic Compound Determination, Phase II," U.S. EPA, Region VII, Kansas City, KS, \$33,000.
- 3/86-12/86 "Air Toxics Monitoring Procedures," U.S. EPA, Region VII, Kansas City, KS, \$38,000.
- 6/86-5/89 "Establishment of a Research Program to Study the Characteristics and Environmental Impacts of Atmospheric Deposition," State of Kansas, Topeka, KS, \$101,000.
- 7/86-6/87 "Atmospheric Deposition of Organic Compounds at an Eastern Kansas Site," University of Kansas, Lawrence, KS, \$5,100.
- 10/86-9/89 "Aerosol Nitrogen Inputs to a Tree/Grass Ecotone," U.S. EPA, Washington, D.C., \$374,000.
- 2/87-1/88 "Biological and Engineering Contributions to the U.S. Geological Survey's RI/FS at the Arkansas City Landfill Site in South-Central Kansas," U.S. Geological Survey, Washington, D.C., \$50,000.
- 4/87-12/87 "Air Toxics Monitoring Procedures," U.S. EPA, Region VII, Kansas City, KS, \$36,000.
- 9/87-12/88 "Development of a Sampling Procedure for Large Nitrogen and Sulfur Bearing Particles," U.S. EPA, Washington, D.C., \$75,000.
- 1/88-4/89 "Refinement of a Detection and Analysis Approach to Volatile Organic Compound Release Characterization Using a Whole Air Technique," U.S. EPA, Region VII, Kansas City, KS, \$57,000.
- 4/89-3/90 "Field Testing of a New Infrared Spectrophotometer for Detection of Toxic Air Pollutants," U.S. EPA, Region VII, Kansas City, KS, \$54,000.

Funded Research: (continued)

- 4/90-3/91 “Ambient Air Toxics Monitoring Using Evacuated Canisters in a Complex Industrial Setting,” U.S. EPA, Region VII, Kansas City, KS, \$66,700.
- 6/90-1/93 Sampling and Analytical Support for the AEROCE Project,” U.S. EPA, RTP, NC, \$135,478.
- 8/90-10/90 “Acid Aerosol Methods Evaluation - Analysis Phase,” U.S. EPA, RTP, NC,
- 7/90-6/91 “The Development of a Mass Transfer Theory for the Determination of Dry Deposition Onto a Forest Canopy,” University of Kansas, Lawrence, KS, \$7,583.
- 9/90-8/91 “Long-Path FTIR Performance and Data Intercomparability Project,” U.S. EPA, Region VII, Kansas City, KS, \$24,598.
- 9/90-8/91 “Comprehensive Evaluation of a Field Transportable FTIRS Remote Sensing Instrument,” U.S. EPA, Region VII, Kansas City, KS, \$70,000.
- 4/91-3/92 “Development of a Theoretical Relationship to Estimate Source Emission Rates from Long Path FT-IR Data of Ambient Air Toxic Pollution Concentrations,” U.S. EPA, Region VII, Kansas City, KS, \$70,000.
- 9/91-8/93 “Development of a Theoretical Relationship to Estimate Source Emission Rates from Long Path FTIR Data of Ambient Air Toxic Pollution Concentrations,” U.S. EPA, Region VII, Kansas City, KS, \$70,000.
- 4/92-3/93 “Source Emission Rate Study, Phase 1,” U.S. EPA, Region VII, Kansas City, KS, \$72,000.
- 4/92-4/93 “Development and Characterization of the VAPS (Versatile Air Pollution Sampler),” U.S. EPA, RTP, NC, \$49,325.
- 5/92-8/92 “EPA/EPSCoR Development Grant,” U.S. EPA, Washington, D.C., \$5,000.
- 8/92-8/93 U.S. EPA Graduate Student Fellowship, U.S. EPA, RTP, NC, \$1,890.
- 7/92-6/93 Research Development Fund, University of Kansas, Lawrence, KS, \$30,000.
- 7/93-6/94 Research Development Fund, University of Kansas, Lawrence, KS, \$45,000.
- 4/93-3/94 “Source Emission Rate Study, Phase II,” U.S. EPA, Region VII, Kansas City, KS, 75,000.
- 8/93-6/94 “Upjohn Manufacturing Company Wastewater Management Study - Bench-scale Treatability Study,” Black & Veatch, Kansas City, MO, \$33,000.
- 9/93-12/93 “Design and Test of Wind - Independent Aerosol Sampling Inlet,” U.S. EPA, Washington, D.C., \$10,000.
- 1/94-5/94 Industrial Wastewater Treatability Nitrification/Denitrification Study,” Black & Veatch, Kansas City, MO, \$6,300.

Funded Research: (continued)

- 4/94-3/95 "Source Emission Rate Study, Phase II," U.S. EPA, Region VII, Kansas City,KS, \$80,000.
- 7/94-6/95 Research Development Fund, University of Kansas, Lawrence, KS, \$45,000.
- 4/95-3/96 "Source Emission Rate Study, Phase II (continuation)," U.S. EPA, Region VII, Kansas City, KS, \$82,000.
- 5/95-5/99 "An Atmosphere/Climate Experiment Using Internationally Derived Data from an Internet-Structured Model," NSF, Washington, D.C., \$772,000.
- 10/94-9/01 U.S. EPA/EPSCoR (Experimental Program to Stimulate Competitive Research). U.S. EPA, Washington, D.C., \$1,450,000 (KU project director). Up for renewal in 2001.
- 11/93-6/99 "Kansas Small Business Assistance Program Pursuant to the Kansas Air Quality Act," U.S. EPA/Kansas Department of Health & Environment, Topeka, KS, \$2,090,000.
- 10/97-7/03 "Southeast Kansas Health Study," U.S. EPA, Washington, D.C., \$396,000.
- 9/97-5/03 "Kansas Collaborative Research Network," U.S. Department of Education, Washington, D.C., \$4,507,000.
- 10/98-7/03 "Soil Sampling in Support of the Southeast Kansas Health Study," U.S. EPA, Washington, D.C., \$80,000.
- 10/98-7/03 "Equipment Purchase for Southeast Kansas Health Study," Lafarge Corp., Fredonia, KS, \$27,500.
- 1/99-12/01 "Atmospheric Release Advisory Capability (ARAC)Initiative," Lawrence-Livermore National Laboratory, \$14,503.
- 6/99-5/03 "The Kansas Collaborative for Excellence in Teacher Preparation (KACETP)," NSF, Washington, D.C., \$2,400,000.
- 7/99-6/02 "Research Development Fund," University of Kansas, Lawrence, KS, \$100,000.
- 9/99-8/03 "Teaching Fellows in the Kansas City Metropolitan Schools," NSF, Washington, D.C., \$1,092,000.
- 10/00-9/03 "Remote Sensing as a Viable Tool for Improving Air Quality Through Public Education and Action," U.S. Department of Transportation, Washington, D.C., \$1,303,000.
- 9/00-8/03 "Environmental Air Quality," NSF/EPSCoR, Washington, D.C., \$750,000.
- 9/00-8/01 "Air Quality/Cancer Risk in Scott County Kansas," Free Masons Foundation, \$15,000.

Funded Research: (continued)

- 9/01-8/05 “Extending Scientific Inquiry Through Geographic Information System,” NSF, Washington, D.C., \$1,061,000.
- 6/02-6/05 “WEB Facilitated Professional Development Course for Science Teachers,” AT&T Foundation, \$200,000.
- 9/03-8/05 “On-grid Hybrid Electric Bus Project,” Metropolitan Energy Center, Kansas City, \$33,000.
- 3/04-12/06 “On-grid Hybrid Electric Bus Project - Phase II,” Metropolitan Energy Center, Kansas City, \$169,000.
- 10/04-9/06 “Off-road Diesel Engine/Low Sulfur Fuel Emissions Study,” Federal Transit Authority, Washington, D.C., \$81,000.
- 9/03-8/08 “Center for Environmentally Beneficial Catalysis,” NSF/EPSCoR, Washington, D.C., \$17,000,000.
- 2/05-9/06 “Vehicle Emission Sampling of JCT Buses Operating with Diesel and Ethanol-Blended Diesel Fuel,” JCT, Kansas City, \$25,000.
- 9/05-5/06 “Effects of Schoolyard Exposure to Diesel School Bus Emissions on Pediatric Respiratory Health,” KU Medical Center, Kansas City, \$8,100.
- 8/05-8/08 “United States and China: Seeking Common Environmental Research Strategies,” NSF, Washington, D.C., \$19,800.
- 8/06-8/10 “On-board Vehicle Emission Monitoring System,” Transportation Research Institute, University of Kansas, Lawrence, KS, \$170,000.
- 8/06-8/10 “Plug-in Hybrid Emissions Characterization & Demonstration Study,” Transportation Research Institute, University of Kansas, Lawrence, KS, \$165,000.
- 09/07-08/08 “I/UCRC – Center for Bioprocessing and Development,” NSF, Washington, D.C., \$10,000.
- 08/07-07/10 “Emissions Testing and Performance Evaluation of Aircraft Diesel Engines,” Transportation Research Institute, University of Kansas, Lawrence, KS, \$52,000.
- 08/07-07/10 “KU Electric Bus Demonstration Project,” U.S. Department of Transportation, Washington, D.C, \$87,000.
- 08/07-07/10 “Biodiesel Emissions Testing,” Transportation Research Institute, University of Kansas, Lawrence, KS, \$187,000.
- 01/08-12/13 “Kansas Partnership for Graduate Fellows in K-12 Education,” NSF, Washington, D.C., \$2,901,000.

Funded Research: (continued)

- 08/08-07/10 “Next-Generation Campus Shuttle: Electric Bus and Inductive Power Research and Demonstration Project,” U.S. Department of Transportation, Washington, D.C., \$1,040,000.
- 2008-2013 “Modeling the Potential of Nutrient Supplied Algal to Biofuel Processes in Natural and Lightly Engineered Systems,” Transportation Research Institute, University of Kansas, Lawrence, KS, \$536,000.
- 2009-2011 “Electric Bus and Inductive Power Research and Demonstration,” Transportation Research Institute, University of Kansas, Lawrence, KS, \$222,000.
- 2009-2013 “RET: Shaping Inquiry from Feedstock to Tailpipe (SHIFT),” NSF, Washington, D.C., \$499,000.
- 2010-2013 “Feedstock to Tailpipe Initiative: Kansas Biofuels Production, Testing and Certification Laboratory,” DOE, Washington, D.C., \$1,236,950.
- 2010-2013 “KBA: Sustainable Biofuel from Algae,” Kansas Bioscience Authority, Topeka, KS, \$300,000.
- 2010-2013 “REU Site: Biofuels Development – Feedstock to Tailpipe,” NSF, Washington, D.C., \$357,400.
- 2013-2017 “RET: Shaping Inquiry from Feedstock to Tailpipe (SHIFT),” NSF, Washington, D.C., 334,048.
- 2014-2018 “University of Kansas Center for Science and Research Support (KU - CSRS), U.S. Army Corp of Engineers”, Washington, D.C., \$15,000,000.
- 2016-2018 “Kansas City Transportation and Local-scale Air Quality Study (KC-TRAQS)” U.S. EPA, Research Triangle Park, NC, \$50,000.

Conferences:

- 1974, American Society of Civil Engineers' Environmental Engineering National
1980-1982 Conference
- 1977-1982, Air Pollution Control Association International Conference
1986-1989
- 1981 Third Symposium on the Transfer and Utilization of Particulate Control
Technology
- 1984-1985 American Association for Aerosol Research International
- 1987-1988 Conference. Session Chair - 1988.
- 1985 Fine Particle Society Conference. Session Chair

- 1986-1994 U.S. EPA International Symposium on the Measurement of Toxic and Related Air Pollutants. Session Chair - 1988, 1989, 1990, 1991, 1992.
- 1989 U.S. EPA Acid Aerosol Workshop (Invited)
- 1990 NASA International Workshop on Stratospheric Aerosols: Measurements, Properties, Effects (Invited)
- 1991 Sixth Conference on Environmental Engineering Education

Conferences: (continued)

- 1992-1996 Air and Waste Management Association Annual Conference
- 1999 Sigma Xi Scientific Forum
- 2001 AWMA Specialty Conference: Hazardous Waste Combustors (Invited)
- 2001 Ninth International Conference on Modeling, Monitoring and Management of Air Pollution, Ancona, Italy (Invited)
- 2006 Fourteenth International Conference on Modeling, Monitoring and Management of Air Pollution, New Forest, Great Britain (Invited)

Patents:

“A Wind Independent Ambient Air Sampling Inlet,” patent applied for in U.S.

“The Paramount Dustless Hood,” patent applied for in U.S. with LABCONCO, Kansas City, MO.

List of Publications:**1) Thesis**

1.1 D.D. Lane, “The Analog Between Particle Deposition in a Pipe and Particle Deposition on a Flat Plate,” Ph.D. Thesis, University of Illinois, Urbana, IL (1976).

2) Scientific and Professional Papers: (Refereed Only)

2.1 Lane, D.D., and J.J. Stukel, “Dispersion of Pollutants in Automobile Wakes,” Journal of the Environmental Engineering Division, ASCE, Vol. 102, No. EE32.3 Proc. Paper 121289, June, 1976, pp. 571-580.

2.2 Lane, D.D., and J.J. Stukel, “Aerosol Deposition on a Flat Plate,” Journal of Aerosol Science, Vol. 9, pp. 191-197 (1978).

2.3 Ginevan, M.E., and D.D. Lane, “Potential Effects of Sulfur Dioxide Air Pollution on Insects,” Environmental Science and Technology, Vol. 12, No. 7, pp. 828-831 (1978).

2.4 Lane, D.D., “Ozone in Lawrence, Kansas,” Transactions of the 29th Annual Conference on Sanitary Engineering, University of Kansas, Lawrence, Kansas, Vol. 29, pp. (1979).

2.5 Ginevan, M.E., and D.D. Lane, “Ambient Air Concentration of Sulfur Dioxide Affects Flight Activity in Bees,” The Proceedings of the National Academy of Sciences, Vol. 77, No. 10, p. 5631 (1980).

2.6 Ginevan, M.E., and D.D. Lane, “A Small Scale Gas Exposure System,” Environmental Entomology, A Journal of the American Entomological Society, Vol. 73, pp. 46-48 (1980).

2) **Scientific and Professional Papers: (Refereed Only)** (continued)

- 2.7 Bider, W.L., and D.D. Lane, "A Critical Analysis of Four Particle Sizing Samplers," Journal of the Environmental Engineering Division, ASCE, Vol. 107, No. EE3 (1981).
- 2.8 Cowherd, C., Jr., H.C. Reed, and D.D. Lane, "In-situ Measurement of Wind-Generated Particulate Emissions from Exposed Aggregates," Transactions of the Third Symposium on the Transfer and Utilization of Particulate Control Technology, Vol. 3, pp. (1981).
- 2.9 Lane, D.D., "An Evaluation of Ozone Precursor Transport - The Lawrence, Kansas Situation," Transactions of the ASCE National Conference on Environmental Engineering, Vol. , pp. (1981).
- 2.10 Parr, A.D., and D.D. Lane, "Two-Point Method of Dispersivity Evaluation for Tracer Tests," Proceedings of the Annual ASCE Hydraulics Division Specialty Conference, Vol. , pp. 29-34 (1983).
- 2.11 Lane, D.D., "May/Research Engineers Cascade Impactor," Journal of the American Industrial Hygiene Association, Vol. 44, No. 7, pp. B19-B21 (1983).
- 2.12 McCall, E., A.D. Parr, and D.D. Lane, "A Soil - Bed Flume Study of Pesticide Transport," Proceedings of the Annual ASCE Hydraulics Division Specialty Conference, Vol. , pp. (1984).
- 2.13 Lane, D.D., T.E. Baxter, T. Cuscino, and C. Cowherd, Jr., "Use of Laboratory Methods to Quantify Dust Suppressant Effectiveness," Society of Mining Engineers Transactions, Vol. 274, pp. 2001-2004 (1984).
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 Jonguitud, Vicente (1979)
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