

CURRICULUM VITAE

L. DONALD DUKE

Associate Professor
Florida Gulf Coast University
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(239) 590 – 7542 ldduke@fgcu.edu

EDUCATION

Stanford University

Ph.D., Civil Engineering, 1992

M.S., Civil Engineering (Infrastructure Planning and Management), 1984

University of Pennsylvania

B.S., Civil Engineering, 1980

B.A., English, 1980

ACADEMIC EXPERIENCE

Florida Gulf Coast University, 2007 – present

Associate Professor of Environmental Science and Policy

Department of Marine and Ecological Sciences

University of South Florida, 2002 – 2007

Associate Professor and Director of Graduate Studies

Department of Environmental Science and Policy

University of California at Los Angeles, 1992 – 2001

Assistant Professor

Environmental Health Sciences Department

Environmental Science and Engineering Program

Research Interests

Water quality assessment. Watershed-based analyses of sources, temporal and spatial distribution of pollutant sources and ambient constituents, and statistical analyses for water quality assessment. Development and alternative assessment for watershed and regional programs. Transport, fate, and effects of pollutants in urban storm water discharges.

Water quality policy. Critical analysis, effectiveness assessment, and analysis of impacts of environmental policies on the aquatic environment: federal, state, and regional policies and regulations; watershed management decisions; water quality standards. Statistical methods for watershed management. Quantification of pollutant sources and discharges in urban runoff.

Industrial pollution prevention. Origin, fate, and effects of industrial pollutants: wastewater pollutants, hazardous and toxic substances, and pollutants in industrial runoff. Quantification of pollutant sources, risk assessment and decision-making for industrial hazardous substances.

Scientific basis of environmental decision-making. Effectiveness of current policies and methods for use of environmental data, modeling forecasts, and stakeholder preferences in environmental policies: selection of water quality standards; allocation of pollutant loads among sources.

OTHER PROFESSIONAL EXPERIENCE

California Regional Water Quality Control Board, Los Angeles CA
Water Resources Control Engineer, 2001 – 2002

Woodward-Clyde Consultants, Oakland CA
Project Engineer, Stormwater Management Division, 1989 – 1992

Stanford University, Palo Alto CA
Graduate Teaching Assistant, Department of Civil Engineering, 1987 – 1989; 1984 – 1985

University of Tennessee, Knoxville TN
Graduate Teaching Assistant, Department of Engineering Science and Mechanics, 1986 – 1987

University City Science Center, Philadelphia PA
Center for Energy Management and Industrial Technology,
Program Manager, 1985 – 1986; Staff Engineer, 1980 – 1983

Professional Registration

Professional Engineer (Civil), California, no. C 052221

HONORS AND DISTINCTIONS***Academic Honors and Awards***

Fulbright Scholar, Environmental Research Institute, University of Iceland, 2003

UCLA School of Public Health Faculty Member of the Year (teaching award), 1995-96; 1998-99

Delta Omega National Public Health Honor Society, elected member 1995

The World Bank, Washington DC, Research Associate, summer 1984

Benjamin Franklin Scholars / General Honors Program, University of Pennsylvania, 1975-80

University of Pennsylvania exchange to Université de Technologie de Compiègne, France, 1979

Policy Advisory Boards

National Academy of Sciences Committee on Reducing Stormwater Discharge
Contributions to Water Pollution, Seattle WA, August 21, 2007. “Effectiveness of
Stormwater Regulations for Industry.”

United States Environmental Protection Agency National Storm Water Coordinators’
Meeting, Baltimore MD, September 22, 1998. “Identification of Non-Filing Facilities in
California and Strategies for Improving Compliance;” “Strategies for Prohibition of Non-
Stormwater Discharges.”

RESEARCH

Publication Record

Total publications include 20 papers in peer-reviewed scholarly journals, 16 peer-reviewed conference proceedings, 15 other conference proceedings, and 14 technical reports. Also 34 presentations at scholarly meetings, and 20 seminars and invited presentations.

Funded Research Activity

Total academic research funding more than \$1 million from Federal, state, municipal, and intramural sources.

Selected Recent Grants and Contracts

Improved Identification and Inspection of Industrial Facilities for Reducing Pollutants in Stormwater Runoff, County of Hillsborough, FL: 2006 – 2007, \$45,000

Investigation of Cleaning Protocol Improvement and Lifetime Extension for Reverse Osmosis Membranes, City of Dunedin, FL: 2006 – 2007, \$25,000

Effectiveness Assessment of NPDES Regulations for Storm Water Discharges, U.S. Environmental Protection Agency: 2000 – 2004, \$205,000

Loadings of Selected Metals via Stormwater and Non-Stormwater Discharges from Facility Drainage Channels and Storm Drain Conveyances, U.S. Environmental Protection Agency / Stanford Linear Accelerator Center: 2002, \$25,000

Identification, Site Assessment, and Evaluation of Pollution Prevention Potential for Stormwater Discharges from Industrial Facilities, City of Los Angeles, CA and Santa Monica Bay Restoration Foundation: 1999 – 2000, \$64,000

Physical Process and Decision Modeling for Sediment Transport, Oahu, Hawaii, U.S. Environmental Protection Agency: 1999, \$31,000

Storm Water General Industrial Permit Non-Filers Identification, U.S. Environmental Protection Agency / California State Water Resources Control Board: 1995 – 1998, \$200,000

Ecological Risk Assessment for Contaminated Wetlands, Mare Island Naval Shipyard, San Francisco Bay, University of California Toxic Substances Program: 1995 – 1998, \$48,000

Statewide Policy for Effective Prohibition of Non-Stormwater Discharges to Storm Water Conveyances, Regional Water Quality Control Board, Los Angeles: 1995 – 1997, \$50,000

Hazardous Waste Minimization, Pollution Prevention, and Risk Reduction Potential in Electroplating and Printed Wire Board Facilities, University of California Toxic Substances Program: 1994 – 1997, \$53,000

Feasibility of Numeric Water Quality Effluent Limits for Storm Drain Discharges into Ocean Waters of California, California State Water Resources Control Board: 1993 – 1995, \$30,000

Graduate Student Research Supervised

University of South Florida

Doctoral Committees, Ph.D.: Committee Member

Melissa Jarrell, Department of Criminology, 2005
Lori Collins, Department of Anthropology, 2007
George Kish, Department of Geography, candidate

Master's Committees, M.S.: Chair and Thesis Advisor

Lindsay Griffen, 2005
Kelly Gleaton, 2006
Fatima Turay, 2007 (co-chair, with Prof. Conteh-Morgan)
Joshua Goldman, 2007 (co-chair, with Prof. Yeh)
Richard McDonald, candidate (2008) (co-chair, with Prof. Strom)
Sarah Malone, candidate (expected graduation 2008)

Master's Committees, M.S.: Committee member

Kelly Wilson, 2004
Peiyao Cheng, 2004
Lisa Rhea (Department of Civil and Environmental Engineering), 2004
Tomoyuki Hashimoto, 2005
Erin McMahan, 2006
Timothy Terwilliger (Department of Civil and Environmental Engineering), 2007
Denara Manning, 2007
Gregory Mayfield, 2007
Pamela Fetterman, candidate (expected graduation 2008)

Graduate Certificate in Environmental Management and Policy: Academic advisor

12 students completed certificate (no thesis), 2002 – 2007

University of California, Los Angeles

Doctoral Committees, Ph.D.: Chair

Yue Rong, 1995
Jingyang Zhang, 2002
Kathleen Shaver, 2007

Doctoral Committees, D.Env.: Chair

J. David Shoemaker (co-chair, with M. Stenstrom), 1994
Lisette A. Bauersachs, 1995
Laura Bloch, 1996
Hyon (Cathy) Chang, 2000
Molly M. Kihara (co-chair, with K. Stolzenbach), 2001
Mitzy L. Taggart, 2002
Katharine A. Gabor, 2003

Doctoral Committees, Ph.D.: Committee Member

Susan Pelmulder, Civil and Environmental Engineering Dept., 1994
Walter Thistlewaite, Environmental Health Sciences Dept., 1994
James Clark, Environmental Health Sciences Dept., 1995
David Bell, Mechanical, Aeronautical, and Nuclear Engineering Dept., 1995
Peter Katsumada, Mechanical, Aeronautical, and Nuclear Engineering Dept., 1995
Todd Paulos, Mechanical, Aeronautical, and Nuclear Engineering Dept., 1995
Dung Kong, Civil and Environmental Engineering Dept., 1996
Kenneth Wong, Civil and Environmental Engineering Dept., 1996
Kevin Paxton, Mechanical and Aeronautical Engineering Dept., 1997
Brendan Dooher, Mechanical and Aeronautical Engineering Dept., 1998
Raul Lejano, Environmental Health Sciences Dept., 1998
Connie Young, Environmental Health Sciences Dept., 1998
David Kimbrough, Environmental Health Sciences Dept., 2002

Doctoral Committees, D.Env.: Committee Member

Gerald Greene, 1994
Gary Lynch, 1994
Xavier Swamikannu, 1994
Farinaz Tabatabai, 1994
Eric Stein, 1995
Alice Kwan, 1996
Veronika Pesinova, 1996
Mark Sudol, 1996
Diana Vorsatz, 1996
Lynn Creelman, 1997
Ana Corado-Aguilar, 1998
Bruno Levine, 1999
A. Whitman Miller, 2000
Anne-Christine Aycaguer, 2001
Jonathan Lilien, 2001
Spencer MacNeil, 2001
Kanan Patel Coleman, 2002

Master's Committees, M.S.: Chair and Thesis Advisor

Michelle H. Wilhelm, 1994
Yong Jae Chung, 1994
Sylvia Rostami, 1995
Todd Sax, 1995
Ben Masek, 1996
Thomas Lo, 1996
Matthew Buffleben, 1997
Lara Ganse, 1997
Nancy Meck, 1998
Cara A. Augustenborg, 2001
Mayra I. Tinoco, 2001

Master's Committees, M.S.: Committee Member

Catherine Downey, 1992
Evan Goldenberg, 1992
Michael Rivers, 1993
Marcia Torobin, 1993
Michael Streff, 1993
Laura A. Waltemath, 1993
Charles Rairdan, 1994
Eva Chun, 1994
John Salzer, 1994
Diane Lynch, 1998
Karim Zayed, 1999
Setsuko Ichikawa, 2000

Master's Committees, M.P.H.: Chair (no thesis)

Young-Jae Kim, 2000
Grace R. Kwok, 2001

Selected Recent Dissertation and Thesis Titles Supervised

Joshua Goldman, 2007. "Investigation of Cleaning Protocol Improvement and Lifetime Extension for Reverse Osmosis Membranes" (co-chair, with D. Yeh and J. Cunningham)

Kathleen A. Shaver, 2007. "Assessment of First-Stage Compliance with California's Industrial Storm Water Discharge Regulations: The Role of Self-Identification and the Pollution Prevention Approach in Industrial Permitting."

Lindsay M. Griffen, 2005. "Reducing Pollutants in Industrial Stormwater Runoff: Improved Water Quality Protection Using Prioritized Facility Regulation."

Katharine Anne Gabor, 2003. "Relative Environmental Impacts of Aqueous and Solvent Small Parts Cleaning Systems: Application of Life-Cycle Analysis Methods to Evaluate Regulatory Trends in the Auto Repair Industrial Sector."

Jingyang Zhang, 2002. "Environmental Models to Assess Regional Impacts to Support Cleaner Technology Decisions: Case Study of Perchloroethylene in Los Angeles and Chicago."

Mitzy L. Taggart, 2002. "Oceanographic and Discharge Factors Affecting Shoreline Fecal Bacteria Densities Around Storm Drains and Freshwater Outlets at Marine Beaches."

Hyon Chu (Cathy) Chang, 2001. "Assessing Effectiveness of Storm Water Regulations for Industry: Regulatory Compliance and Water Quality Implications in the Auto Dismantling Industry, Los Angeles, California."

Molly Miyoko Kihara, 2000. "Modeling of Sediment Generation, Transport, and Loading in a Mixed Land-Use Watershed."

Lara Ganse, 2000. "Habitat Conservation Planning for the California Gnatcatcher."

TEACHING

Over 20 years' experience teaching environmental engineering, environmental science, and environmental policy classes at graduate, upper-division, and lower-division levels. Specialize in developing courses integrating science and policy, teaching policy analysis and critical policy assessment to scientists and engineers, and teaching scientific basis of policy decision-making.

Florida Gulf Coast University

Policies and Institutions for the Water Environment, Florida and the U.S., EVS 4230: Fall 2007

Graduate Seminar in Environmental Policy, EVR 6937: Fall 2007, Fall 2008

Introduction to Environmental Policy, ISC 2930: Spring 2008, Fall 2008

Water Quality Policy, EVR 6216: Spring 2008

Toxics and Society, IDS 3303: Spring 2008, Fall 2008

University of South Florida

Introduction to Environmental Policy, EVR 2861: 2002 – 2007

Fully redesigned course, core curriculum in Environmental Science and Policy

Water Quality Research and Policy Decision-Making (department colloquium), *EVR 4921:* 2005

Graduate Seminar in Environmental Policy, EVR 6937: 2003 – 2006

Fully redesigned course, core curriculum in Environmental Science and Policy

Watershed Management / Water Quality Policy, EVR 6216: 2004 – 2007

Original course in specialty area

Scholarly Presentation of Environmental Research, EVR 6921: 2004 – 2007

Original course for M.S. thesis research techniques

University of Iceland

Watershed Management—Data Analysis and Practical Problem Solving, V200: 2003

Háskóli Íslands Umhverfisstofnun (University of Iceland Environmental Research Institute)

University of California, Los Angeles

Quantitative Methods in Environmental Assessment, EHS 235: 1993 – 2000

Original course, core curriculum in Environmental Science and Engineering

Critical Analysis in Environmental Policy for Scientists and Engineers, EHS 234: 1999 – 2001

Original course integrating science and policy for advanced graduate students

Environmental Science and Engineering Problems Course, ESE 400A, 400B; 400C: 1993 – 2000

Directed graduate research: nine students over six years

Stanford University

Economics for Infrastructure Planning, CE 221: 1987

Topics in Infrastructure Planning and Management, CE 291 (doctoral seminar): 1988

University of Tennessee

Engineering Graphical Analysis: ESM 51, 1986 – 1987 (six sessions)

UNIVERSITY SERVICE AND ADMINISTRATION**Florida Gulf Coast University**

Chair, Master of Arts in Environmental Studies degree development committee, 2007 – 2008

Faculty search committee, Department of Civil and Environmental Engineering, 2008

University of South Florida***Department of Environmental Science and Policy***

Director of Graduate Studies, 2002 – 2007

Director, Graduate Certificate in Environmental Policy and Management, 2002 – 2007

Chair, Graduate Admissions Committee, 2002 – 2007

Faculty search committee, 2004 – 2005

Chair, M.S. Curriculum Revision committee, 2003 – 2004

Chair, Ph.D. Policies and Procedures committee, 2002 – 2003

College of Arts and Sciences

Editorial Advisory Board, Globalization Research Center, 2005 – 2007

Co-chair, faculty search committee, Department of Government and International Affairs,
2003 – 2004

University of California, Los Angeles***Environmental Science and Engineering Program***

Admissions and Financial Aid Committee, 1992 – 2000

Academic computing facilities management, 1994 – 1997

Annual Report preparation, 1992, 1993, 1994

Department of Environmental Health Sciences

Academic Policies and Procedures Committee, 1997 – 1999

Admissions and Financial Aid Committee, 1995 – 1998

Departmental Seminar Committee, 1993 – 1995

Committee on Recruiting and Alumni Relations, 1993 – 1994

Ad hoc committee on teaching responsibilities, 1994

School of Public Health

Educational Policy and Curriculum Committee, 1998 – 2000

Research Committee, 1994 – 1998

Faculty Executive Committee: Secretary, 1992 – 1994; Department representative, 1994

PROFESSIONAL SERVICE AND ACTIVITIES

Professional Society Affiliations

Air and Waste Management Association, 1987 – 2001
American Society of Civil Engineers, since 1977
American Planning Association, since 1985
American Water Resources Association, since 1997
American Association of University Professors, since 1997
Association of Environmental Engineering and Science Professors, since 2002
Florida Stormwater Association, since 2002
Society of Environmental Toxicology and Chemistry, since 2001
Water Environment Federation, since 1989

Participation in Technical Advisory Groups

Tampa Bay Estuary Program, Technical Advisory Committee, 2004 – present
Florida Water Quality Monitoring Council, 2004 – present
Caloosahatchee Technical Working Group, FL Dept of Environmental Protection, 2007 – present
Gulf of Mexico Alliance technical advisory workshop, 2005
California Storm Water Quality Task Force, 1990 – 2003
Santa Monica Bay Restoration Project, Technical Advisory Committee, 1994 – 1996

Peer Reviewer for Scholarly Publications

Environmental Engineering, American Society of Civil Engineers
Environmental Impact Assessment Review
Environmental Management
Environmental Science and Technology
Journal of the Air and Waste Management Association
Journal of the American Water Resources Association
Journal of the Irrigation and Drainage Division, American Society of Civil Engineers
Journal of Soil and Water Conservation
Reason Public Policy Institute
Water Environment Research
Water Resources Research
Waste Management

Scholarly Conference Technical Service

Technical Program Committee member, American Water Resources Association 2004 Annual Conference, Orlando FL: November 1 – 4, 2004.

Session convener and chair, “Stormwater Discharges from Urban Watersheds: Pollutant Sources, Loads, and Control Policies,” American Society of Civil Engineers Joint Conference on Water Resources Engineering and Water Resources Planning & Management, Minneapolis MN: August 1, 2000.

Session convener and chair, “Multi-Media Pollution Prevention,” 88th Annual Meeting, Air and Waste Management Association, San Antonio TX: June 26, 1995.

Session convener and chair, “Industrial Storm Water Pollution Prevention,” 87th Annual Meeting, Air and Waste Management Association, Cincinnati OH: June 23, 1994.

PEER-REVIEWED PUBLICATIONS**Papers in Peer-Reviewed Scholarly Journals**

- Cross, Lindsay M. and Duke, L. Donald, 2008. "Stormwater Regulations for Industry: Linking Regulatory Priorities with Water Quality Protection." *Journal of the American Water Resources Association*, 44 (1), 86 - 106.
- Duke, L. Donald and Shaver, Kathleen A. "Industrial Storm Runoff and the Failure of the Self-Implemented Model of Environmental Regulations for Industry in the U.S." *Journal of Environmental Management*, submitted.
- Duke, L. Donald; Yanev, George; and Mbah, Alfred. "Correlation of Storm Characteristics with Constituent Concentration in Urban Storm Water Discharges." *Water Resources Research*, submitted.
- Duke, L. Donald and Augustenborg, Cara, 2006. "Effectiveness of Self-Identified and Self-Reported Environmental Regulations for Industry: The Case of Storm Runoff in the U.S." *Journal of Environmental Planning and Management*, 49 (3), 385-411.
- Duke, L. Donald, 2005. "Effluent Limits and the NPDES Permit," in *The Encyclopedia of Water*, New York: John Wiley & Sons.
- Duke, L. Donald and Erickson, Elizabeth, 2003. "Determination of Critical Flow Conditions for Chloride Impairment in an Effluent-Dominated, Storm-Peaking Western U.S. Stream." *Water Environment Research*. 75(1): 39-53.
- Duke, L. Donald and Taggart, Mitzy, 2000. "Uncertainty Factors in Screening Ecological Risk Assessments." *Environmental Toxicology and Chemistry*, 19(6): 1668-1680.
- Duke, L. Donald; Coleman, Kanan Patel; and Masek, Ben, 1999. "Widespread Failure to Comply with U.S. Storm Water Regulations for Industry, Part 1: Publicly-Available Data to Estimate Number of Potentially Regulated Facilities." *Environmental Engineering Science*, 16(4): 229-247.
- Duke, L. Donald and Shaver, Kathleen, 1999. "Widespread Failure to Comply with U.S. Storm Water Regulations for Industry, Part 2: Facility-Level Evaluations to Estimate Number of Regulated Facilities." *Environmental Engineering Science*, 16(4): 249-263.
- Duke, L. Donald; Lo, Thomas; and Turner, Michelle W., 1999. "Chemical Constituents in Dry Weather Discharges from Storm Water Conveyances in California." *Journal of the American Water Resources Association*, 35(4): 1-16.
- Duke, L. Donald; Buffleben, Matthew; and Bauersachs, Lisette, 1998. "Pollutants in Storm Water Runoff from Metal Plating Facilities, Los Angeles, California." *Waste Management*. 18(1): 25-38.

Papers in Peer-Reviewed Scholarly Journals, continued

- Duke, L. Donald and Bauersachs, Lisette, 1998. "Compliance with Storm Water Pollution Prevention Regulations by Metal Plating Industry Facilities." *Journal of the American Water Resources Association*, 34(1): 1-12.
- Duke, L. Donald; Rong, Yue; and Harmon, Thomas C., 1998. "Parameter-Induced Uncertainty in Vadose Zone Transport Modeling for VOCs." *Environmental Engineering*, 124(5): 441-448.
- Duke, L. Donald and Kihara, Molly, 1998. "Water Quality Concerns and Regulatory Controls for Non-Storm Water Discharges to Storm Drains." *Journal of the American Water Resources Association*, 34(3): 661-676.
- Duke, L. Donald, and Beswick, Paul G., 1997. "Industry Compliance with Storm Water Pollution Prevention Regulations: The Case of Transportation Industry Facilities in California and the Los Angeles Region." *Journal of the American Water Resources Association*, 33(4): 825-838.
- Duke, L. Donald and Masek, Ben, 1997. "Evaluating Progress in Toxics Pollution Prevention for Two Industrial Sectors, 1987-1993." *Environmental Engineering Science*. 14(2): 81-95.
- Duke, L. Donald, 1995. "Industrial Storm Water Runoff: Pollution Prevention Practices for Facilities and Design of Regional Programs." *AIPE Facilities*, 22 (1): 49-55.
- Duke, L. Donald, 1995. "Industrial Storm Water Controls: Practical Pollution Prevention." *Watershed Protection Techniques*, 1 (3): 55.
- Duke, L. Donald, and Chung, Yong Jae, 1995. "Industrial Storm Water Pollution Prevention: Effectiveness and Limitations of Source Controls in the Transportation Industry." *Waste Management*, 15(8): 532-558.
- Duke, L. Donald, 1994. "Pollution Prevention and Hazardous Waste Management in Two Industrial Metal Finishing Facilities." *Hazardous Waste and Hazardous Materials*, 11(3): 435-457.
- Duke, L. Donald, 1994. "Hazardous Waste Minimization: Is it Taking Root in the U.S.? An Analysis of Waste Minimization Technologies Implemented by the Metal Plating Industry in California." *Waste Management*, 14(1): 49-60.
- Duke, L. Donald and Keenan, John D., 1983. "Use of Wood Wastes as Fuel in the Secondary Wood Products Industries." *Energy*, 8(5): 369-380.

Papers in Peer-Reviewed Scholarly Conference Proceedings

- Duke, L. Donald; Mbah, Alfred; and Yanev, George P., 2007. "Statistical Relationships of Storm Runoff Constituents with Storm Event Characteristics in Nine California Urban Watersheds." *Proceedings of the World Water and Environmental Resources Congress 2007*, Tampa, Florida: May 16, 2007. 19 pages.
- Duke, L. Donald, 2004. "The Southwestern U.S. Urban Storm Water Quality Assessment." *Proceedings of the Environmental and Water Resources Institute 2004 Annual Meeting*, American Society of Civil Engineers. 12 pages.
- Duke, L. Donald, 2001. "Industrial Storm Runoff and the Pollution Prevention Paradigm," *Proceedings of the 5th International Conference on Diffuse/Nonpoint Pollution and Watershed Management*, International Water Association. 14 pages.
- Duke, L. Donald and Chang, C., 2001. "Storm Water Pollution Prevention Compliance by Auto Dismantlers in the Los Angeles Region," *Proceedings of the World Water and Environmental Resources Congress*, American Society of Civil Engineers. 12 pages.
- Duke, L. Donald and Augustenborg, C. A., 2001. "Storm Water Discharges by Industrial Facilities in Four Urban Regions," *Proceedings of the World Water and Environmental Resources Congress*, American Society of Civil Engineers. 12 pages.
- Shaver, Kathleen A. and Duke, L. Donald, 2000. "Industrial Storm Water Discharges: Characterizing Los Angeles Facilities to Improve Compliance and Estimates of Pollutant Loads," *Proceedings, American Society of Civil Engineers Joint Conference on Water Resources Engineering and Water Resources Planning and Management*. 14 pages.
- Sax, Todd P.; Lewis, Chad L.; and Duke, L. Donald, 2000. "Estimating Pollutant Loading by Runoff from Industrial Activities in an Urban Watershed," *Proceedings, American Society of Civil Engineers Joint Conference on Water Resources Engineering and Water Resources Planning and Management*. 14 pages.
- Zhang, Jingyang and Duke, L. Donald, 1998. "Evaluating Pollution Prevention Potential for a Lead-Free Technology for the Printed Wiring Board Industry." *Proceedings of the 91st Annual Meeting of the Air and Waste Management Association*. 16 pages.
- Duke, L. Donald and Swamikannu, Xavier, 1998. "Statewide Policy for Control of Non-Storm Water Discharges in California." *Proceedings of the 91st Annual Meeting of the Air and Waste Management Association*. 16 pages.
- Duke, L. Donald and Masek, Ben, 1997. "Evaluating Industrial Toxic Waste Reduction: Using Publicly Reported Data to Assess Changes in Metal Finishing and Circuit Board Printing, California, USA." *Proceedings of the 90th Annual Meeting of the Air and Waste Management Association*. 9 pages.
- Duke, L. Donald and Parikh, Jignasa, 1995. "Hazardous Waste Management in the California Metal Plating Industry." *Proceedings of the 88th Annual Meeting of the Air and Waste Management Association*. 11 pages.

Papers in Peer-Reviewed Scholarly Conference Proceedings, continued

- Duke, L. Donald, 1994. "Controlling Pollutants in Storm Water Runoff Associated with Industrial Activities: Pollution Prevention Approaches by Municipal Programs in California." *Proceedings of the 87th Annual Meeting of the Air and Waste Management Association*. 7 pages.
- Duke, L. Donald and Gardiner, Nancy A., 1993. "Industrial Storm Water Pollution Prevention: A Regional Program for the Santa Clara Valley, California." *Proceedings of the 86th Annual Meeting of the Air & Waste Management Association*. 10 pages.
- Duke, L. Donald, 1993. "Pollution Prevention Preferred? Conflicting Signals to the Industrial Community." *Proceedings of the 86th Annual Meeting of the Air & Waste Management Association*. 12 pages.
- Duke, L. Donald, 1991. "Industrial Hazardous Waste Minimization Incentives and Impediments: An Industry Case Study of Metal Platers and Metal Finishers." *Proceedings of the 84th Annual Meeting of the Air & Waste Management Association*. 15 pages.
- Duke, L. Donald, 1990. "Hazardous Waste Minimization—A Risk Assessment Approach: Case Studies of Two Industrial Firms." *Proceedings of the 83rd Annual Meeting of the Air & Waste Management Association*. 16 pages.

PAPERS IN PUBLISHED PROCEEDINGS

- Duke, L. Donald and Yeager, Matt A, 1999. "Limited Usefulness of Extensive Self-Reported Runoff Constituent Analyses by Industry: Calculating Loads and Pollution Prevention Progress for the Metal Plating Industry, Los Angeles." *Proceedings, Annual Meeting of Water Resources Planning and Management Division, American Society of Civil Engineers, Phoenix AZ, June 1999*.
- Duke, L. Donald, 1999. "Compliance with Storm Water Regulations for Industry," *Proceedings, Science into Policy: Water in the Public Realm—Specialty Conference of the American Water Resources Association, Bozeman MT, June 1999*.
- Duke, L. Donald and Shaver, Kathleen, 1998. "Storm Water Pollution Prevention for Industrial Facilities in California." *Water Resources and the Urban Environment (Proceedings, Joint Conference on Water Resources Planning and Management / Environmental Engineering, American Society of Civil Engineers, Chicago IL, June 1998*.
- Duke, L. Donald, 1998. "Storm Water Pollution Prevention: Compliance Assessment of Industrial Facilities in California." *American Water Resources Association, Clear Point AL, November 1998*.
- Duke, L. Donald; Beswick, Paul G.; and Chung, Yong Jae, 1996. "Urban Runoff Pollutants from Industrial Sources: Some Key Issues Illustrated by the Los Angeles Region Transportation Industry." *Bulletin of the Southern California Association for the Advancement of Science, April 1996*.

Papers in Published Proceedings, continued

- Beswick, Paul G.; Brackbill, Craig; and Duke, L. Donald, 1996. "Process Risk Assessment for Alternative Drinking Water Disinfection Technologies." *Proceedings: North American Water Environment Conference*. American Society of Civil Engineers, Anaheim CA, June 1996.
- Duke, L. Donald and Chung, Y. Jae, 1996. "Compliance with Industrial Storm Water Pollution Control Permit Requirements in California." *Proceedings: North American Water Environment Conference*, American Society of Civil Engineers, Anaheim CA, June 1996.
- Duke, L. Donald and Wilhelm, Michelle H., 1995. "Numerical Effluent Limits for Storm Water: Methodologies for Developing Environmentally-Based Regulatory Limits for Storm Water Discharges to Ocean Waters." *Proceedings of the Water Resources Division Specialty Conference, American Society of Civil Engineers*, Cambridge MA, May 1995.
- Duke, L. Donald, 1994. "Industrial Storm Water Regulation: California's Pollution Prevention Approach." *Proceedings of the AWMA Waste Minimization Specialty Conference*, Valley Forge, PA, April 1994.
- Duke, L. Donald, 1994. "Storm Water Pollution Control for Industry: Developing Effective Guidelines Through Public Involvement." *Proceedings of the Water Resources Division Specialty Conference, American Society of Civil Engineers*, Denver, May 1994.
- Duke, L. Donald, 1993. "Storm Water Pollution Prevention in the Santa Clara Valley, California: A Basinwide Program of Outreach and Cooperation with Industry." *Proceedings, Watershed 93: A National Conference on Watershed Management*, March 1993.
- Duke, L. Donald, 1991. "Hazardous Waste Minimization for Two Metal Plating Firms: A Risk-Based Approach." *Proceedings of Hazmacon 91, Association of Bay Area Governments Hazardous Materials Conference*, Santa Clara, CA, April 1991, pp. 96-106.
- Duke, L. Donald, 1990. "Hazardous Waste Minimization: A Site Specific Risk Assessment Approach for Evaluating Industrial Waste Management Measures." *Environmental Engineering: Proceedings of the 1990 Specialty Conference*. American Society of Civil Engineers, Arlington VA, July 8-11, 1990.
- Duke, L. Donald, 1990. "Hazardous Waste Minimization Policy and Implementation: A Study of the Metal Finishing Industry." *Hazmacon 90, Association of Bay Area Governments Hazardous Materials Conference*, Santa Clara, CA, April 1990.
- Duke, L. Donald, 1989. "Hazardous Waste Minimization Measures Implemented by Metal-Plating Plants in the San Francisco Bay Area." *Hazardous and Industrial Wastes: Proceedings of the Twenty-first Mid-Atlantic Industrial Waste Conference*, Harrisburg PA, July 1989.

TECHNICAL REPORTS

- Duke, L. Donald; Given, Suzan E.; Augustenborg, Cara A.; Teague, Kara; Williams, Cassandra; and Tinoco, Mayra, 2004. *Effectiveness Assessment of NPDES Regulations for Storm Water Discharges*. Final Report to U.S. Environmental Protection Agency, CWA §104(b)(3) Water Quality Cooperative Agreement grant, contract no. X-82807301-0, September 2004. 365 pages.
- Duke, L. Donald, 2002. *Sources and Transport of Chemical Constituents in Stormwater and Dry Weather Flows in SLAC Subterranean and Surface Drainage System: Data Summary and Analysis*. Final report to Stanford Linear Accelerator Center Environmental Protection and Restoration Group, August 2002. 200 pages.
- Duke, L. Donald, 2002. *Load Assessment Method for Copper and Lead in Storm Water Runoff: Reporting to Toxic Release Inventory*. Final report to Stanford Linear Accelerator Center, October 2002. 30 pages.
- Duke, L. Donald; Shaver, Kathleen A.; Burnam, Joshua L.; Sax, Todd P.; and Augustenborg, Cara A., 2000. *Industrial Storm Water Discharger Identification and Compliance Evaluation in the City of Los Angeles*. Final Report to California Regional Water Quality Control Board, June 2001. 120 pages.
- Duke, L. Donald; Chung, Y. Jae; Shaver, Kathleen A.; Coleman, Kanan Patel; Masek, Ben; Yeager, Matt A.; Ganse, Lara; Meck, Nancy; Lewis, Chad; Jones, C. Renee; Sax, Todd P.; and Zayed, Kareem, 1999. *Storm Water General Industrial Permit Non-Filer Identification and Communication Project*. Final Report to California State Water Resources Control Board, U.S. EPA CWA §104(b)(3) grant, contract no. 5-096-250-0, October 1999. 150 pages.
- Duke, L. Donald; Lilien, Jonathan; Kihara, Molly; Lo, Thomas; Harris, Patricia; and Ganse, Lara, 1997. *Evaluation of Non-Storm Water Discharges to California Storm Drains and Potential Policies for Effective Prohibition*. Report to California State Water Resources Control Board, U.S. EPA CWA §104(b)(3) grant, contract no. 5-104-140-0, June 1997. 110 pages.
- Duke, L. Donald; Chung, Y. Jae; and Beswick, Paul G., 1995. *Storm Water Pollution Control for Santa Monica Bay: Transportation Industry Outreach and Education*. Report to Santa Monica Bay Restoration Foundation Public Involvement and Education Program, April 1995. 35 pages.
- Duke, L. Donald; Wilhelm, Michelle H.; Lo, Thomas; and Vojtek, Mary Ellen, 1995. *Feasibility of Developing Numerical Effluent Limits for Storm Water Discharges to Santa Monica Bay*. California State Water Resources Control Board, Oct. 1995. 42 pages.
- Duke, L. Donald and Shannon, Jill A., 1992. *Best Management Practices for Industrial Storm Water Pollution Control*. Woodward-Clyde Consultants, for Santa Clara Valley Nonpoint Source Pollution Control Program, April 1992. 28 pages.

Technical Reports, continued

- Duke, L. Donald and Shannon, Jill A., 1991. *Best Management Practices for Automotive Related Industries: Practices for Sanitary Sewer Discharges and Storm Water Pollution Control*. Woodward-Clyde Consultants, for Santa Clara Valley Nonpoint Source Pollution Control Program, September 1991. 16 pages.
- Duke, L. Donald, 1989. "Restrictions on Land Disposal of Hazardous Wastes: A Summary of New Developments." Kleinfelder Associates, Inc., Sacramento CA. 16 pages.
- Duke, L. Donald, 1986. *Energy Management Assistance for Small and Medium-size Manufacturers: A Second-Phase Evaluation of the 1984-85 Energy Analysis and Diagnostic Center Program*. Report for U.S. Department of Energy. University City Science Center, Philadelphia, PA. 30 pages.
- Duke, L. Donald, ed; McCann, Laura L. and DeLoach, Marilyn, asst. eds., 1985. *Fifty Case Studies of Industrial Energy Conservation among Small and Medium-size Manufacturers*. Report for U.S. Department of Energy. University City Science Center, Philadelphia, PA. 90 pages.
- Duke, L. Donald, 1983. *Directory of Industrial Energy Conservation Opportunities*. University City Science Center, Philadelphia, PA. 22 pages.

DISSERTATION

- Duke, L. Donald, 1992. *Industrial Hazardous Waste Management: Policies and Technologies for Waste Minimization and Pollution Prevention*. A dissertation submitted to the Department of Civil Engineering at Stanford University in partial fulfillment of the requirements for the degree of Doctor of Philosophy.

ABSTRACTS AND PRESENTATIONS AT SCHOLARLY CONFERENCES

- Goldman, Joshua; Ferlita, Russell; Keen, Michael; Cunningham, Jeffrey; Duke, L. Donald; and Yeh, Daniel. "A Multi-Level, Systematic Evaluation of Cleaning Protocols for Reverse Osmosis Membranes in Drinking Water Treatment," Water Environment Federation Membrane Technology, Atlanta GA: January 28, 2008.
- Duke, L. Donald; Embry, Margaret; Gonzales, Johan; and Malone, Sarah. "Effectiveness of Modeling and Model Analyses for Water Quality Decision-Making: Nutrient TMDLs in USEPA Region 4, Southeastern U.S.," 2008 Everglades Coalition Annual Conference, Captiva Island FL: January 10, 2008.
- McDonald, Richard K.; Waymouth, Y. R.; Strom, Elizabeth; and Duke, L. Donald. "Towards regenerative Development: A Strategy to Increase Sustainability of University Campuses," Conference on Campus and Community Sustainability, Tallahassee FL: October 14, 2007.

Abstracts and Presentations at Scholarly Conferences, continued

- Duke, L. Donald and Gleaton, Kelly L. "Usefulness of Industrial Storm Runoff Monitoring Regulations for Watershed Management and Water Quality Protection," World Water and Environmental Resources Congress 2007, Tampa, Florida: May 15, 2007.
- Duke, L. Donald and Gleaton, Kelly L. "Regulatory Effectiveness of Industrial Storm Water Regulations, Pinellas and Hillsborough Counties," Florida Universities Symposium on Environmental Research, Tampa FL: September 12, 2005.
- Duke, L. Donald and Griffen, Lindsay. "Industrial Stormwater Runoff: Improved Water Quality Protection Using Prioritized Facility Regulation," American Water Resources Association Annual Water Resources Conference, Orlando FL: November 3, 2004.
- "Urban Storm Water Quality, Twelve Metropolitan Areas in the U.S. Southwest," American Water Resources Association Annual Water Resources Conference, Orlando FL: November 3, 2004.
- "The Southwest U.S. Urban Storm Water Quality Assessment," American Society of Civil Engineers, Environmental and Water Resources Institute Annual Conference, Salt Lake City UT: June 30, 2004.
- "Urban Runoff Water Quality: Compensating for Variability to Identify Long-Term Trends in Seven California Watersheds," American Water Resources Association Annual Meeting, San Diego CA: November 4, 2003.
- "Critical Pollutant Loading Conditions for Chloride in Calleguas Creek, California," American Water Resources Association Annual Meeting, San Diego CA: November 4, 2003.
- Duke, L. Donald and Augustenborg, Cara A. "Industrial Facility Compliance with Storm Water Regulations: Comparison in Multiple Urban Regions," American Water Resources Association Annual Meeting, Philadelphia: November 7, 2002.
- Duke, L. Donald and Given, Suzan A. "Statistical Relationship of Meteorological Factors with Pollutant Concentration in Urban Runoff, Los Angeles, California," American Water Resources Association Annual Meeting, Philadelphia: November 7, 2002.
- Taggart Mitzy L.; Weisberg, Steven; and Duke, L. Donald. "Variability of Shoreline Fecal Bacteria Densities Adjacent to Freshwater Outlets in the Dry Season—Implications for Routine Monitoring Programs," California and the World Ocean '02: Revisiting and Revising California's Ocean Agenda, Santa Barbara CA: October 29, 2002.
- Chang, Hyon Chu and Duke, L. Donald. "Pollutants in Runoff from Auto Dismantlers in Urban Watersheds," 5th International Conference on Diffuse/Nonpoint Pollution and Watershed Management, International Water Association, Milwaukee WI: June 12, 2001.
- Chang, Hyon Chu and Duke, L. Donald. "Storm Water Pollution Prevention Compliance by Auto Dismantlers in the Los Angeles Region," World Water and Environmental Resources Congress, American Society of Civil Engineers, Orlando FL: May 23, 2001.

Abstracts and Presentations at Scholarly Conferences, continued

Duke, L. Donald and Augustenborg, Cara A. "Storm Water Discharges by Industrial Facilities in Four Urban Regions," World Water and Environmental Resources Congress, American Society of Civil Engineers, Orlando FL: May 21, 2001.

"Compliance with Storm Water Regulations for Industry," Science into Policy: Water in the Public Realm, American Water Resources Association, Bozeman MT: June 29, 1999.

Duke, L. Donald and Yeager, Matt A. "Limited Usefulness of Extensive Self-Reported Runoff Constituent Analyses by Industry: Calculating Loads and Pollution Prevention Progress for the Metal Plating Industry, Los Angeles," Annual Meeting of Water Resources Planning and Management Division, American Society of Civil Engineers, Phoenix AZ: June 8, 1999.

"Pollutants Originating with Industrial Storm Water Runoff in the Los Angeles Watershed," Annual Meeting of the American Water Resources Association, Point Clear, AL: November 17, 1998.

"Evaluation of Non-Storm Water Discharges to California Storm Drains and Potential Policies for Effective Prohibition," 91st Annual Meeting of the Air and Waste Management Association, San Diego CA: June 17, 1998.

"Evaluating Pollution Prevention Potential for Lead-Free Technologies for the Printed Wiring Board Industry," 91st Annual Meeting of the Air and Waste Management Association, San Diego CA: June 16, 1998.

"Storm Water Pollution Prevention for Industrial Facilities in California," Water Resources and the Urban Environment: Joint Conference on Water Resources Planning and Management / Environmental Engineering, American Society of Civil Engineers, Chicago IL: May 10, 1998.

"Measuring Pollution Prevention by Industry: An Analysis of the California Metal Plating and Circuit Board Printing Industries," 90th Annual Meeting of the Air and Waste Management Association, Toronto, Ontario: June 14, 1997.

"Storm Water Pollution Prevention for Industry: Regulatory Compliance and Water Quality Implications," North American Water Environmental Congress / American Society of Civil Engineers Water Resources Division annual conference, Anaheim, CA: June 27, 1996.

"Hazardous Waste Management in the California Metal Plating Industry." 88th Annual Meeting of the Air and Waste Management Association, San Antonio, TX: June 12, 1995.

"Methods for Developing Numerical Limits for Storm Water Discharges to Ocean Waters," American Society of Civil Engineers Water Resources Division Annual Conference, Cambridge, MA: May 8, 1995.

"Controlling Pollutants in Storm Water Runoff Associated with Industrial Activities: Pollution Prevention Approaches by Municipal Programs in California." 87th Annual Meeting of the Air and Waste Management Association, Cincinnati, OH: June 18, 1994.

Abstracts and Presentations at Scholarly Conferences, continued

- “Public Involvement in the Santa Clara Valley Nonpoint Source Pollution Control Program,” American Society of Civil Engineers Water Resources Division annual meeting, Denver, CO: May 24, 1994.
- “Pollution Prevention in Metal Plating Facilities,” Air and Waste Management Association Waste Minimization Specialty Conference, Valley Forge, PA: April 28, 1994.
- “Pollution Prevention Preferred? Conflicting Signals to the Industrial Community,” 86th Annual Meeting of the Air & Waste Management Association, Denver, CO: June 16, 1993.
- “Industrial Hazardous Waste Minimization Incentives and Impediments: An Industry Case Study of Metal Platers and Metal Finishers,” 84th Annual Meeting of the Air & Waste Management Association, Vancouver, BC: June 19, 1991.
- “Hazardous Waste Minimization for Two Metal Plating Firms: A Risk-Based Approach,” Hazmacon 91, Association of Bay Area Governments Hazardous Materials Conference, San Jose, CA: April 12, 1991.
- “Hazardous Waste Minimization: A Site Specific Risk Assessment Approach for Evaluating Industrial Waste Management Measures.” American Society of Civil Engineers Environmental Engineering Specialty Conference, Arlington, VA: July 11, 1990.
- “Industrial storm water pollution prevention: A Regional Program for the Santa Clara Valley, California.” 86th Annual Meeting of the Air & Waste Management Association, Denver, CO: June 15, 1993.
- Panel member, four half-day sessions: “Industrial Storm Water Pollution Control Regulatory Compliance, Santa Clara Valley Nonpoint Source Pollution Control Program.” San Jose, CA; Campbell, CA; Palo Alto, CA; Sunnyvale, CA: February 7, 1992.
- “Industrial Storm Water Pollution Control Regulations.” HazMat 92, Hazardous Materials Management Conference and Exhibition, Northern California, San Jose, CA: February 5, 1992.
- “Hazardous Waste Minimization—A Risk Assessment Approach: Case Studies of Two Industrial Firms,” 83rd Annual Meeting of the Air & Waste Management Association, Pittsburgh, PA: June 21, 1990.
- “Hazardous Waste Minimization Policy and Implementation: A Study of the Metal Finishing Industry.” Hazmacon 90, Association of Bay Area Governments, Santa Clara, CA: April 21, 1990.
- “Hazardous Waste Minimization Measures Implemented by Metal-Plating Plants in the San Francisco Bay Area.” Hazardous and Industrial Wastes: Twenty-first Mid-Atlantic Industrial Waste Conference, Harrisburg, PA: July 9, 1989.

UNIVERSITY GUEST LECTURES AND SEMINAR PRESENTATIONS

“Correlation of Storm Characteristics with Constituent Concentration in Urban Storm Water Discharges,” Frontiers in Statistics seminar, Department of Mathematics, University of South Florida, February 17, 2006.

“Water Quality Policy in the U.S.,” University of South Florida Environmental Research Interdisciplinary Colloquium series, October 6, 2005.

“Fire and Ice: Infrastructure and Energy Supply in Iceland,” Department of Environmental Science and Policy, University of South Florida: September 11, 2003.

“Satisfying Competing Demands for a Limited Natural Resource: Water Supply in California, USA,” University of Iceland Environmental Research Institute: March 6, 2003.

University of San Francisco Department of Environmental Science: “Urban Storm Runoff Pollutants: Land Use, Pollution Prevention, and the Failure of NPDES,” March 21, 2002.

UCLA Department of Environmental Health Sciences (EHS M411): “Industrial Storm Runoff and the Pollution Prevention Paradigm,” May 17, 2001.

McGill University School of Urban Planning and School of the Environment: “Urban Watersheds, Industrial Runoff, and the Pollution Prevention Paradigm,” March 8, 2001.

University of Southern California Environmental Studies Program: “Industrial Storm Runoff and the Pollution Prevention Paradigm,” February 22, 2001.

University of Pennsylvania Geology Department, Environmental Studies Program: “Industrial Storm Runoff and the Pollution Prevention Paradigm,” October 6, 2000.

Rutgers University Department of Urban Planning, Center for Urban Policy Research: “Watershed Planning for Urban Regions: Pollutants in Runoff from Industrial Facilities,” October 12, 1999.

Tulane University Department of Environmental Health Sciences: “Widespread Failure to Comply with Storm Water Pollution Prevention Regulations for Industry,” November 1998.

UCLA Department of Environmental Health Sciences (EHS M411): “Storm Water Pollution Prevention for Industry: Regulatory Compliance and Water Quality Implications,” October 1997.

Departmental seminar, University of California, Berkeley, Department of Civil Engineering: “Storm Water Pollution Prevention for Industry: Regulatory Compliance and Water Quality Implications,” February 1997.

Los Alamos National Laboratory: “Storm Water Pollution Prevention for Industry: Regulatory Compliance and Water Quality Implications,” January 1997.

Stanford University Department of Civil Engineering: “Storm Water Pollution Prevention for Industry: Regulatory Compliance and Water Quality Implications,” November 1996.

University of Southern California Department of Civil Engineering: "Storm Water Pollution Prevention for Industry: Regulatory Compliance and Water Quality Implications," October 1996.

UCLA Department of Environmental Health Sciences: "Setting regulatory limits for storm water discharges: Rational Decisions, Sound Science, and Practical Reality," November 1995.

UCLA Department of Civil and Environmental Engineering: "Hazardous Waste Minimization Policies and Results to Date: Lessons from the Metal Finishing Industry," March 1995.

San Diego State University School of Public Health: "Industrial Hazardous Waste Management," October 1994.

UCLA Department of Environmental Health Sciences (EHS M411): "Environmental Consequences of California Water Supply and Delivery Systems," April 1993.

INVITED LECTURES AND PRESENTATIONS

Invited presentation, "Critical Conditions Assessment for TMDL in an Agricultural/Urban Stream," Society of Environmental Toxicology and Chemistry, Salt Lake City UT: November 17, 2002.

Invited presentation, "Evaluating Critical Flow Conditions for Pollutants in an Effluent-Dominated, Storm-Peaking Western U.S. Stream," TMDL Science Issues Conference 2001, Water Environment Federation specialty conference, St. Louis MO: March 6, 2001.

Plenary session speaker: Southern California Society of Environmental Toxicology and Chemistry 2000 Annual Meeting, San Diego CA, June 16, 2000. "Industrial Storm Runoff and the Pollution Prevention Paradigm."

Invited presentation, "Program for Identification and Communication with Industrial Facilities Not in Compliance with the California Storm Water NPDES Permit," California Regional Water Quality Control Board / Los Angeles region, Monterey Park CA: June 26, 1996.

Invited presentation, "Statewide Policy for Effective Prohibition of Non-Storm Water Discharges," California Storm Water Quality Task Force, Ontario CA: March 8, 1996.

Invited presentation, "Current Activities in Storm Water Pollution Control," Fourth Annual Water Pollution Prevention Symposium, San Francisco CA: November 13-14, 1995.

Invited presentation, "Numerical limits for Ballona Creek Storm Water Discharges to Santa Monica Bay," Southern California Academy of Sciences Symposium, Fullerton CA: May 1995.

Invited presenter, California State Water Resources Control Board training session for storm water regulation, "Storm Water Pollution Prevention for the Fabricated Metal Products Industry;" "The Pollution Prevention Approach for Industrial Storm Water." Riverside CA: February 27, 1995; Sacramento CA: March 20, 1995.

Invited presentation, "Feasibility of Numerical Limits for Storm Water Discharges to Santa Monica Bay," Santa Monica Bay Restoration Project Technical Advisory Committee: March 9, 1995.

Invited presenter, 8-hr training session, "Best Management Practices for Storm Water Pollution Prevention at Industrial Facilities," Hazmacon 93, San Jose, CA: March 29, 1994.

Invited presentation, "Pollution Prevention in Metal Plating Facilities," Institute for Regional Studies for the Californias workshop on pollution prevention, San Diego, CA: January 1994.

Invited presenter, 8-hr training session, "Best Management Practices for Storm Water Pollution Prevention at Industrial Facilities," Hazmacon 93, San Jose, CA: April 1993.

Session moderator, "Hazardous Waste Issues at Stanford University," Stanford Environmental Conference, Palo Alto CA: February 1989.