

DANIEL ALAN VALLERO

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EDUCATION

Ph.D. Civil and Environmental Engineering, Duke University, Durham, North Carolina. 2000.  
Concentration: Environmental Engineering  
Dissertation: "Dicarboximide Fungicide Flux to the Lower Troposphere from an Aquic Hapludult Soil"  
Committee: J.J. Peirce (Advisor); F. Boadu; D. Richter; and A. Schuler

M.S. Civil and Environmental Engineering, University of Kansas, Lawrence, Kansas. 1996.  
Specialty: Environmental Health Sciences

M.S. City and Regional Planning, Southern Illinois University, Edwardsville, Illinois. 1977.  
Specialty: Environmental Planning

B.A. Earth Sciences & Psychology, Southern Illinois University, Edwardsville, Illinois. 1974.

SCIENTIFIC RESEARCH EXPERIENCE AND LEADERSHIP

Senior Research Physical Scientist -10/2016 to Present; Research Physical Scientist 1/2004 – 10/2016  
National Exposure Research Laboratory (NERL)  
U.S. Environmental Protection Agency, Research Triangle Park, North Carolina 27711

I currently lead key aspects of the Systems Exposure Division's (formerly the Human Exposure and Atmospheric Sciences Division's) life-cycle-human exposure modeling research related to model selection and adaptation, and am the laboratory lead for developing the framework for enhancing life cycle analyses to include reliable exposure content and algorithms. I am also leading the portions of NERL's rapid exposure and dosimetry research, especially related to decision support tools to integrate and disseminate data, information and models developed from this research.

I continue to collaborate with numerous EPA offices and laboratories on near-road pollution research, asbestos measurement, and models to predict environmental partitioning, transport, transformation, and fate of pollutants. This has led to substantial experience developing, directing, and leading research programs involving human exposure to environmental stressors, including semivolatile organic compounds, volatile organic compounds, fibers, and aerosols.

As a senior scientist, I identify and prioritize these emergent research needs, I have had to design programs and studies to meet the objectives and data requirements of EPA Program and Regional Offices, state and local governmental organizations, academic institutions, and other collaborators. I have built strong collaborations with my fellow national and international scientific experts and senior managers in order to prioritize research objectives, developing research plans, and providing advice on policy issues to complement my close working relationships with eclectic, multidisciplinary teams.

As science lead, principal investigator, supervisor, postdoctoral mentor, doctoral and undergraduate mentor, I have worked closely with a diverse cadre of individuals to provide a meaningful and productive work environment that allows them to reach their maximum potential as engineers, scientists and public health professionals. I have found innovative ways for my direct reports and colleagues to gain access to training, collaborative interactions, and other career development opportunities to set them on the path to careers that have paid great dividends to them personally and to the missions of environmental protection and engineering excellence.

Branch Chief (Acting) - 02/2013 to 06/2013  
Exposure Modeling Research Branch, National Exposure Research Laboratory  
U.S. Environmental Protection Agency, Research Triangle Park, North Carolina 27711

Branch Chief - 08/2000 to 04/2002  
Human Exposure Analysis Branch, National Exposure Research Laboratory  
U.S. Environmental Protection Agency, Research Triangle Park, North Carolina 27711

Research Team Leader - 01/1994 through 11/2000  
Air Toxics and Endocrine Disruptor Exposure Research, National Exposure Research Laboratory  
U.S. Environmental Protection Agency, Research Triangle Park, North Carolina 27711

Research Environmental Scientist - 08/1996 through 12/1999  
National Exposure Research Laboratory  
U.S. Environmental Protection Agency, Research Triangle Park, North Carolina 27711

Branch Chief - 05/1998 through 09/1998  
Exposure Methods and Monitoring Branch, National Exposure Research Laboratory  
U.S. Environmental Protection Agency, Research Triangle Park, North Carolina 27711

Branch Chief - 09/1995 through 03/1997  
Source Apportionment and Characterization Branch, National Exposure Research Laboratory  
U.S. Environmental Protection Agency, Research Triangle Park, North Carolina 27711

Branch Chief - 06/1995 through 09/1995  
Exposure Assessment Branch, National Exposure Research Laboratory, U.S. Environmental Protection Agency,  
Research Triangle Park, North Carolina 27711

Division Director - 02/1995 through 06/1995  
Air Exposure Research Division, National Exposure Research Laboratory  
U.S. Environmental Protection Agency, Research Triangle Park, North Carolina 27711

Deputy Director - 07/1993 through 02/1995  
Human Exposure and Field Research Division, National Exposure Research Laboratory, U.S. Environmental  
Protection Agency, Research Triangle Park, North Carolina 27711

Congressional Staff Member - 01/1993 through 07/1993, U.S. House of Representatives, Subcommittee on Energy  
and Power, Washington, DC

Advisor to the Director - 09/1992 through 11/1992 Office of Air Quality Planning and Standards, U.S. Environmental  
Protection Agency, Research Triangle Park, North Carolina 27711

Branch Chief - 07/1991 through 09/1992  
EMAP Data Assessment Branch, Atmospheric Research and Exposure Assessment Laboratory  
U.S. Environmental Protection Agency, Research Triangle Park, North Carolina 27711

Technical Coordinator - 11/1990 through 07/1991  
EMAP Data Assessment Branch, Atmospheric Research and Exposure Assessment Laboratory  
U.S. Environmental Protection Agency, Research Triangle Park, North Carolina 27711

Comparative Risk Project Manager - 04/1990 through 11/1990  
Office of Planning and Management, Region VII  
U.S. Environmental Protection Agency, 727 Minnesota Avenue, Kansas City, Kansas 66101

Section Chief - 10/1985 through 04/1990  
Policy and Program Analysis Section, Office of Planning and Management, Region VII  
U.S. Environmental Protection Agency, Kansas City, Kansas 66101

State/EPA Agreement Coordinator - 07/1982 through 10/1985  
Program Integration Branch, Office of Planning and Management, Region VII

U.S. Environmental Protection Agency, Kansas City, Kansas 66101

State/EPA Agreement Coordinator - 07/1979 through 06/1982  
Program Integration Branch, Office of Planning and Management, Region VII  
U.S. Environmental Protection Agency, Kansas City, Kansas 66101

Water Quality Planner - 07/1978 through 07/1979  
Water Quality Planning Branch, Water Division, Region VII  
U.S. Environmental Protection Agency, Kansas City, Missouri 64108

Special Assistant to the Regional Administrator - 03/1978 through 07/1978  
Office of the Regional Administrator, Region VII  
U.S. Environmental Protection Agency, Kansas City, Missouri 64108

Community Planner - 05/1976 through 03/1978  
Office of Intermedia Programs, Environmental Impact Statement Program, Region VII  
U.S. Environmental Protection Agency, Kansas City, Missouri 64108

Intern 06/1975 through 09/1975  
Madison and Bond Counties Planning Department, Edwardsville, Illinois 62025

#### ACADEMIC EXPERIENCE

- 2005 - Present     Adjunct Professor of Civil and Environmental Engineering  
Department of Civil and Environmental Engineering, Pratt School of Engineering, Duke  
University, Durham, North Carolina 27708-0827  
(Collateral appointments to the Trinity School of Arts and Sciences and the Graduate School)
- 2012                 Adjunct Associate Professor  
Department of Environmental, Earth and Geospatial Sciences, North Carolina Central University,  
1801 Fayetteville Street, Durham, North Carolina 27707
- 2007 - 2011         Director – Duke Engineering Focus Program  
Pratt School of Engineering, Duke University, Durham, North Carolina 27708-0827
- 2002 – 2004         Adjunct Associate Professor of Civil and Environmental Engineering  
Department of Civil and Environmental Engineering, Pratt School of Engineering, Duke  
University, Durham, North Carolina 27708-0827  
(Collateral appointments to the Trinity School of Arts and Sciences and the Graduate School)
- 2002 – 2004         Adjunct Associate Professor of Biology  
Biology Department, North Carolina Central University, 1801 Fayetteville Street, Durham, North  
Carolina 27707
- 2002 - 2003         Associate Professor  
Department of Environmental Sciences, North Carolina Central University, 1801 Fayetteville  
Street, Durham, North Carolina 27707
- 1997 - 2004         Director  
Program in Science, Technology and Human Values, Duke University, Durham, North Carolina  
27708-0827

2000 - 2002 Adjunct Assistant Professor of Civil and Environmental Engineering  
Department of Civil and Environmental Engineering, Duke University, Durham, North Carolina  
27708-0827

Previous Teaching experience prior to receiving doctorate included: Lecturer, Civil and Environmental Engineering, Duke University; Lecturer, L.P. Cookingham Institute for Public Administration, University of Missouri-Kansas City; Lecturer Department of Geosciences, University of Missouri-Kansas City, and Research Fellow and Teaching Assistant, Earth Science and Planning Department, Southern Illinois University, Edwardsville, Illinois

## APPOINTMENTS

2016 – 2017 Scientific Committee. Society for Risk Analysis: Risk Governance for Key Enabling Technologies. Venice, Italy.

2016 – Present Task Force on Human Toxicity Impacts. Global Guidance on Environmental Life Cycle Impact Assessment Indicators. Harmonizing Human Toxicity in Life Cycle Impact Assessment - Roadmap

2016 – Present Technical and Organizing Committee, Society for Risk Assessment Policy Forum – Risk Governance for Key Enabling Technologies.

2015 – Present ES-21 Preparedness Science Team, Office of Research & Development, U.S. EPA.

2015 – Present Systems Exposure Division Strategic Planning Committee, National Exposure Research Laboratory, Office of Research & Development, U.S. EPA.

2015 – Present Task Lead, Exposure Model Development, Life Cycle-Human Exposure Modeling Project, Chemical Safety for Sustainability Research Program Team, U.S. EPA.

2014 – Present Co-Task Lead, Conceptual Framework, Life Cycle-Human Exposure Modeling Project, Chemical Safety for Sustainability Research Program Team, U.S. EPA.

2013 – Present Task Lead, Dissemination and Integration. Rapid Exposure and Dosimetry Project. Chemical Safety for Sustainability Research Program Team, U.S. EPA.

2010 – 2014 Exposure-based Chemical Prioritization Team, U.S. EPA

2010 – 2012 U.S. EPA Trustee, Deepwater Horizon Response Team, Gulf of Mexico

2008 – 2013 Advisor, National Academy of Engineering, Online Ethics Program

2007 – Present Member, Science Advisory Board - Environmental Study of Airborne Particulates in Mesabi (Minnesota) Iron Range Communities State of Minnesota, Natural Resources Research Institute

2007 – 2011 Workgroup Lead, Exposure Assessment Tools, Safe Pesticides/Safe Products Implementation Plan

2007 – 2010 Member, Advisory Board, Research Ethics Open Seminar, Land Grant University Research Ethics (LANGURE) Initiative, North Carolina State University (lead).

2006 – Present Member, Responsible Conduct of Research and Engineering Committee, Collaborative Institutional Training Initiative (CITI), Georgia Institute of Technology (lead).

2007 – 2010 Lead, Nanomaterial Human Exposure Research Group, U.S. Environmental Protection Agency.

2007 – 2009 Member, Safe Products/Safe Pesticides Implementation Planning Committee. U.S. Environmental Protection Agency, National Exposure Research Laboratory.

2007 – 2014 Member, Near Road Exposure Implementation Planning Committee. U.S. Environmental Protection Agency, National Exposure Research Laboratory.

2007 – 2009 Member, Agency-wide Expert Review Team: American Petroleum Institute's Report: Section 211(B) Tier 2 High End Exposure Study of Conventional and Oxygenated Gasoline. U.S. Environmental Protection Agency.

2004 – 2008 Exposure Lead, Asbestos Coordination Team

2005 – Present EPA Representative and Exposure Lead, Urban Dispersion Study (Departments of Defense, Energy and Homeland Security, and EPA)

2004 – 2009 Exposure Assessment Lead, Agency Fuel and Fuel Additive Workgroup

2005 – Present Consulting Editor (Environmental Engineering) to the *McGraw-Hill Yearbook of Science and Technology* and the *Encyclopedia of Science and Technology*

2003 – 2009 Lead, Methylcyclopentadienyl Manganese Tricarbonyl (MMT) Exposure Team

2003 – 2004	Facilitator, Emerging Topics in Environmental Science and Engineering, North Carolina Central University
2003 – 2004	Member, Search Committee for Assistant Vice Chancellor for Research, North Carolina Central University
2003	Chair, Science Education Committee, School of Arts and Sciences, North Carolina Central University
2002 - 2004	Technical Lead, Human Exposure Studies in Environmental Justice Communities
2001 - 2002	Air Monitoring Lead, Office of Research and Development's Emergency Response Team, World Trade Center Incident.
1999 - 2001	Principal Investigator; with Ellen Cooter. EPA project to develop, select and apply compartmental models for predicting EDC exposures.
1998 - 2007	U.S. Delegate, Substance Selection Task Force, North American Free Trade Agreement, Commission of Environmental Cooperation
1998 - 2007	Alternate EPA Delegate to U.S. Department of State, Interagency Committee on Persistent Organic Pollutants
1999 - 2001	Laboratory Representative, Air Toxics Research Strategy Development Team, U.S. Environmental Protection Agency
1994 - 2001	Chair, Endocrine Disruptor Exposure Research Team, and Member, Endocrine Disruptor Research Steering Committee, U.S. Environmental Protection Agency
1996 - 1998	U.S. Delegate, Task Force on Criteria, North American Free Trade Agreement, Sound Management of Chemicals Program
1994 - 1996	Environmental Justice Representative, U.S. EPA, National Exposure Research Laboratory
1994 - 1996	Chair, WTI Incinerator Exposure Team
1995	Chair, South Florida Mercury Deposition Team

PUBLICATIONS IN REFEREED JOURNALS (**Bold text indicates invited publication**)

- RJ-1. **Vallero, D. Air pollution monitoring changes to accompany the transition from a control to a systems focus. *Sustainability*. 2016. Accepted: November 18, 2016.**
- RJ-2. Csiszar, S., Meyer, D., Egeghy, P., Price, P., Scanlon, K., Tan, C., Thomas, K., Vallero, D., Bare, J., A conceptual framework to extend life cycle assessment using near-field human exposure modeling and high-throughput tools for chemicals. *Environmental Science & Technology*. DOI: 10.1021/acs.est.6b02277.
- RJ-3. **Solomon, J.D. and Vallero, D. Communicating risk and resiliency: Special considerations for rare events. The CIP Report. (2016). July issue. <http://cip.gmu.edu/2016/06/01/partners-communicating-risk-resiliency-special-considerations-rare-events>.**
- RJ-4. **Vallero, D. Gehin, E. and Skelton, B. Air pollution control and waste management. *Process Safety and Environmental Protection*. 2016. 101(1). DOI: <http://dx.doi.org/10.1016/j.psep.2016.05.011>.**
- RJ-5. Wood, M.D, Plourde, K., Larkin, S., Egeghy, P.P., Williams, A., Zemba, V., Linkov, I. and Vallero, D.A. Advances on a Decision Analytic Approach to Exposure-Based Chemical Prioritization. *Risk Analysis* (Submitted)
- RJ-6. Wroble, J., Frederick, T., Frame, A. and Vallero, D. Air Pollution Monitoring Changes to Accompany the Transition from a Control to a Systems Focus. *PloS one* (Cleared for submission).
- RJ-7. Kimbrough, S., Hays, M., Preston, W., Vallero, D., and Hagler, G. Episodic impacts from California wildfires identified in Las Vegas near-road air quality monitoring. *Environmental Science & Technology*. Jan 5;50(1):18-24. DOI: 10.1021/acs.est.5b05038. Epub 2015 Dec 16.
- RJ-8. **Vallero, D. Viewpoint: Closing the exposure gap. *Environmental Science & Technology*. 2014, 48(24), 14075–14076. (2014). DOI 10.1021/es505678p.**
- RJ-9. Isaacs, K. Glen, G. Egeghy, P., Goldsmith, M., Smith, L., Vallero, D., Brooks, R., Grulke, C., and Özkaynak, H. SHEDS-HT: An Integrated probabilistic exposure model for prioritizing exposures to chemicals with near-field and dietary sources. *Environmental Science & Technology*, 48(21): 12750-12759. (2014). DOI 10.1021/es502513w.

- RJ-10. Vallero, D. and Isukapalli, S. Simulating real-world exposures during emergency events: Studying effects of indoor and outdoor releases in the Urban Dispersion Program in upper Manhattan, New York. *Journal of Exposure Science and Environmental Epidemiology*. (May 2014): 24(3): 279-289. doi:10.1038/jes.2013.
- RJ-11. **Vallero, D. Ethics and Air Pollution in the 21st Century: Biomedical and Environmental Perspectives. *Ethics in Biology, Engineering and Medicine: An International Journal*, 4(3):241-252.**  
DOI: 10.1615/EthicsBiologyEngMed.2014010850
- RJ-12. Goldsmith M-R., Grulke C.M., Brooks R.D., Transue T.R., Tan Y.M., Frame A., Egeghy P.P., Edwards R., Chang D.T., Tornero-Velez R., Isaacs K., Wang A., Johnson J., Holm K., Reich M., Mitchell J., Vallero, D.A., Phillips L., Phillips M., Wambaugh J.F., Judson R.S., Buckley T.J. and Dary C.C. Development of a consumer product ingredient database for chemical exposure screening and prioritization. *Food and Chemical Toxicology*. (December 2013). 65C:269-279. DOI: 10.1016/j.fct.2013.12.029.
- RJ-13. Mitchell, J., Collier, Z.A., Pabon, N., Egeghy, P., Cohen Hubal, E.A., Linkov, I. and Vallero, D.A. A decision analytic approach to exposure-based chemical prioritization. *PLOS One*. 8(8): 1-13. e70911 (August 2013). DOI: 10.1371/journal.pone.0070911.
- RJ-14. Mitchell-Blackwood, J., Arnot, J. Jolliet, O., Egeghy, P., Georgopoulos, P., Isukapalli, S., Wambaugh, J., Cohen-Hubal and Vallero, D. Comparison of models to prioritize chemicals based on exposure potential. *Science of the Total Environment*. 458:555-567. (August 2013).  
<http://dx.doi.org/10.1016/j.scitotenv.2013.04.051>.
- RJ-15. Wambaugh, J.F., Setzer, R.W., Reif, D.M., Gangwal, S., Mitchell-Blackwood, J. Arnot, J.A., Joliet, O., Frame, A., Rabinowitz, J.R., Knudsen, T.B., Judson, R.S., Egeghy, P., Vallero, D.A., and Cohen Hubal, E.A. High throughput models for exposure-based chemical prioritization in the ExpoCast project. *Environmental Science & Technology*. 47: 8479-8488 (June 2013) doi:10.1021/es400482g.
- RJ-16. Isaacs, K., McCurdy, T., Glen, G., Graham, S., Nysewander, M., Erickson, A., Forbes, S., Graham, S., McCurdy, L., Smith, L., Tulve, N., and Vallero, D. Statistical properties of longitudinal time-activity data for use in human exposure modeling. *Journal of Exposure Science and Environmental Epidemiology*. (2013). doi:10.1038/jes.2012.94.
- RJ-17. **Vallero, D. and Letcher, T. Engineering communication: Lessons learned from environmental disasters. *Leadership and Management and Engineering*. 12 (4): 199–209 (October 2012). DOI: 10.1061/(ASCE)LM.1943-5630.0000199.**
- RJ-18. **Vallero, D. and Lioy, P. The 5-R's: Reliable post-disaster exposure assessment. *Leadership and Management and Engineering*. 12 (4): 247-253 (October 2012). doi:10.1061/(ASCE)LM.1943-5630.0000200**
- RJ-19. Kimbrough, S., Bauldauf, R.W., Hagler, G.S.W., Shores, R.C., Mitchell, W.A, Whitaker, D.A, Croghan, C.W. and Vallero, D.A. Long-term continuous measurement of near-road air pollution in Las Vegas: Seasonal variability in traffic emissions impact on local air quality. *Air Quality, Atmosphere & Health*. 6(1):295-305. (2013). DOI:10.1007/s11869-012-0171-x 2012.
- RJ-20. Grulke, C.M., Goldsmith, R-M and Vallero, D.A. Toward a blended ontology: Applying knowledge systems to compare therapeutic and toxicological nanoscale domains. *Journal of Biomedicine and Biotechnology*. (2012), Article ID 308381, 9 pp. <http://dx.doi.org/10.1155/2012/308381>.
- RJ-21. **Resnik, D.B and Vallero, D.A. Geoengineering: An idea whose time has come? *Journal of Earth Science and Climatic Change*. (2012). <http://dx.doi.org/10.4172/2157-7617.S1-001>.**
- RJ-22. Egeghy, P. Vallero, D and Cohen-Hubal, E. Exposure-based prioritization of chemicals for risk assessment. *Environmental Science & Policy*. 14(8):950-964 (December 2011).
- RJ-23. Kimbrough, S., Vallero, D.A., Shores, R.C., and Mitchell, W.A. Enhanced, multi-criteria-based site selection to measure mobile source toxic air pollutants. *Transportation Research Part D: Transport and Environment*. 16(8):586-590 (2011). doi:10.1016/j.trd.2011.07.003
- RJ-24. **Vallero, D., Reintegrating the ethics of engineering and medicine. *International Journal of Medical Implants and Devices*. 5 (1): 21-22 (2011).**
- RJ-25. **Vallero, D. The new bioethics: Reintegration of environmental and biomedical sciences. *Ethics in Biology, Engineering and Medicine*. 2 (1). 269-271 (2011). doi:10.1615/EthicsBiologyEngMed.v1.i4.30.**
- RJ-26. **Lioy, P. and Vallero, D. The scientific method in an era of advocacy. *Ethics in Biology, Engineering and Medicine*. 2 (1). 293-318 (2011). doi:10.1615/EthicsBiologyEngMed.v1.i4.70.**

- RJ-27. J. Richmond-Bryant, S.S. Isukapalli, and D.A. Vallero. Air pollutant retention within a complex of urban street canyons. *Atmospheric Environment*. 45: 7612-7618 (2011). doi:10.1016/j.atmosenv.2010.11.003.
- RJ-28. **Vallero, D. and James, D. Comparison of pedagogies to address the macroethics of nanobiotechnologies. *Ethics in Biology, Engineering and Medicine*. 1(3): 155-177 (2010).**
- RJ-29. Vallero, D.A. Kominsky, J.R., Beard, M.E. and Crankshaw, O.S. Comparison of chrysotile asbestos collection efficiencies on mixed-cellulose ester filters. *Journal of Occupational and Environmental Hygiene*. 6 (1): 62-72 (2009).
- RJ-30. Vallero, D.A. and Beard, M.E. Selecting appropriate measurement and analytical methods to characterize asbestos exposures. *Practice Periodical of Hazardous, Toxic and Radioactive Waste Management*. 13 (2): 249-260 (2009).
- RJ-31. **Vallero, D. Macroethics and engineering leadership. *Leadership and Management and Engineering*. 8 (4): 287-296 (2008).**
- RJ-32. Vallero, D. and Brasier, C. Teaching green engineering: The case of ethanol life cycle analysis. *Bulletin of Science, Technology & Society*. 28 (3): 236-243 (2008).
- RJ-33. Kimbrough, S., Vallero, D., Shores, R., Vette, A., Black, K. and Martinez, V. Multi-criteria decision analysis for the selection of a near road ambient air monitoring site for the measurement of mobile source air toxics. *Transportation Research, Part D: Transport and Environment*. 13 (8): 505-515. (2008). DOI: <http://dx.doi.org/10.1016/j.trd.2008.09.009>.
- RJ-34. Vallero, D.A., Cho, K.D., and Peirce, J.J. Modeling toxic compounds from nitric oxide emission measurements. *Atmospheric Environment*. 43 (2): 253-261 (2008), DOI: 10.1016/j.atmosenv.2008.09.062.
- RJ-35. Georgopoulos, P.G. Sasso, A.L. Isukapalli, S., Liroy, P.J. Vallero, D.A., Okino, M. and Reiter, L. Response to “µg/kg-day or µg/day? A commentary on Georgopoulos et al., JESEE 2008” *Journal of Exposure Science and Environmental Epidemiology* 18. 536-537 (2008).
- RJ-36. **Rodes, C.E., Pellizzari, E.D., Dellarco, M.J., Erickson, M.D., Vallero, D.A., Reismann, D.B., Liroy, P.J., Lippmann, M., Burke, T.A., and Goldstein, B.D. International Society of Exposure Analysis 2007 Panel: Integration of better exposure characterizations into disaster preparedness for responders and the public. *Journal of Exposure Science and Environmental Epidemiology*. 18 (6). 541-550 (2008). DOI: 10.1038/jes.2008.42.**
- RJ-37. Georgopoulos, P.G. Sasso, A.L. Isukapalli, S., Liroy, P.J. Vallero, D.A., Okino, M. and Reiter, L. Reconstructing population exposures to environmental chemicals from biomarkers: Challenges and opportunities. *Journal of Exposure Science and Environmental Epidemiology*. 19(2). 149-171. (2009). DOI: 10.1038/jes.2008.9.
- RJ-38. **Vallero, D.A. Beyond responsible conduct in research: New pedagogies to address macroethics of nanobiotechnologies. *Journal of Long-Term Effects of Medical Implants*. 17(1): 1-12 (2007).**
- RJ-39. Liroy, P., Vallero, D., Foley, G., Georgopoulos, P., Heiser, J., Watson, T., Reynolds, M. DaLoia, J., Tong, S., and Isukapalli, S. A personal exposure study employing scripted activities and paths in conjunction with atmospheric releases of perfluorocarbon tracers in Manhattan, New York, *Journal of Exposure Science and Environmental Epidemiology*. 17: 409-425 (2007).
- RJ-40. Lobscheid, A.B., McKone, T.E., and Vallero, D.A. Exploring relationships between outdoor air particulate-associated polycyclic aromatic hydrocarbon and PM<sub>2.5</sub>: A case study of benzo(a)pyrene in California metropolitan regions. *Atmospheric Environment*. 41: 5659-5672 (2007).
- RJ-41. **Vallero, D., Laursen, T., Lenoir, T., Clark, R. and Reichert, W. Beyond responsible conduct: Macroethics of Nanobiotechnology. *International Journal of Medical Implants and Devices*. 2 (1): 15 (2007).**
- RJ-42. Vallero, D. and Vesilind, P. Preventing disputes with fairness and empathy. *Journal of Professional Issues in Engineering Education and Practice*. 132 (3): 272-278 (2006). DOI: 10.1061/(ASCE)1052-3928(2006)132:3(272).
- RJ-43. Laursen, T., Vallero, D., Lenoir, T., Clark, R. and Reichert, W. The next stage of responsible conduct: **Macroethics of nanobiotechnology research. *International Journal of Medical Implants and Devices*. 2 (1): 14-15. 2007.**
- RJ-44. Reckhow, K., DiGuilio, R., Babendreier, J. and Vallero, D. Comparing the utility of multimedia models for human and ecologic exposure analysis: Two cases. *Epidemiology*. 17(6): S133-S134 (November 2006).

- RJ-45. McKone, T., Riley, W., Maddalena, R., Rosenbaum, R. and Vallero, D. Common issues in human and ecosystem exposure assessment: The significance of partitioning, kinetics, and uptake at biological exchange surfaces. *Epidemiology*. 17(6): S134 (November 2006).
- RJ-46. Vallero, D. Factors in the geotropospheric flux of semivolatile organic compounds. *Environmental Engineering Science*. 22 (1): 109-125, 2005.
- RJ-47. Vette, A., Seila, R., Swartz, E., Pleil, J., Webb, L., Landis, M., Huber, A. and Vallero, D., Air pollution measurements in the vicinity of the World Trade Center, *Environmental Management: Air and Waste Management Association*. February issue: 23-26 (2004).
- RJ-48. Swartz, E., Stockburger, L. and Vallero, D. Polyaromatic hydrocarbons and other semi-volatile organic compounds collected in New York City in response to the events of 9/11. *Environmental Science and Technology*. 37 (16): 3537-46 (2003).
- RJ-49. Vallero, D. Teachable moments and the tyranny of the syllabus: The September eleventh case. *Journal of Professional Issues in Engineering Education*. 129 (2), 100-105 (2003).
- RJ-50. Vallero, D., Banks, Y., and Leovic, K., Innovative approaches to human exposure assessment in environmental justice communities, *Proceedings of the 2002 National Conference on Environmental Science and Technology*, Greensboro, North Carolina, September 8-10, 2002, G. Uzochukwu, K. Schimmel, G. Reddy, S-Y. Chang and V. Kabadi, (Editors), article refereed and peer reviewed, Battelle Press, Columbus, Ohio, 371-386 (2003).
- RJ-51. Lioy, P., Weisel, C., Millette, J. Eisenreich, S., Vallero, D., Offenberg, J., Buckley, B., Turpin, B., Zhong, M., Cohen, M., Prophete, C., Yang, I., Stiles, R., Chee, G., Johnson, W., Alimokhtari, S. Weschler, C., and Chen, L. Characterization of the dust/smoke aerosol that settled east of the World Trade Center (WTC) in Lower Manhattan after the collapse of the 11 September 2001. *Environmental Health Perspectives*. 110 (7): 703-714 (2002).
- RJ-52. Vallero, D. and Peirce, J. Transformation and transport of vinclozolin from soil to air. *Journal of Environmental Engineering*, 128 (3): 261-26 (2002).
- RJ-53. Vallero, D.A. and Peirce, J.J. Hydrologic conditions affecting tropospheric flux of vinclozolin and its degradation products. *Hydrological Science and Technology*, 17 (1-4): 371-385 (2001).
- RJ-54. Vallero, D., Farnsworth, J., and Peirce, J. Degradation and migration of vinclozolin in sand and soil. *Journal of Environmental Engineering*, 127 (10): 952-957, 2001.
- RJ-55. Walker, K., Vallero, D.A., and Lewis, R.G. Factors influencing the distribution of Lindane and other hexachlorocyclohexanes in the environment. *Environmental Science and Technology*, 33: 4373-4378, 1999.
- RJ-56. **Vallero, D.A., Human and ecological assessment methodologies: an overview, in NATO ASI Series, Partnership Subseries, 2. Environment – Vol. 8, Urban Air Pollution, DiSantis, F. and Alligrini, I. (Eds.); Springer-Verlag: Berlin Heidelberg, 1996, 449-466. ISBN: 9783540607076**

GUEST EDITOR (All Invited)

**Special Issue: Air Pollution Monitoring and Sustainable Development. *Sustainability*. ISSN 2071-1050. August 31, 2016.**

**Special Issue: Air and Waste Management. *Process Safety and Environmental Protection*. ISSN 0957-5820,**

**Special Issue: The New Bioethics: Reintegration of Environmental and Biomedical Sciences. ISSN 2151-805X. *Ethics in Biology, Engineering and Medicine*. 2 (1).**

BOOKS (Bold text indicates invited publication)

Author Page: [http://www.amazon.com/Daniel-A.-](http://www.amazon.com/Daniel-A.-Vallero/e/B001HMH28/ref=sr_ntt_srch_lnk_1?encoding=UTF8&qid=1268420141&sr=1-1)

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- AB-1. D. Vallero, P. Egeghy, A. Varghese, and H. Hubbard. "A Draft Ontology for Occupational Exposure." Interdisciplinary Approaches to Health and the Environment. 26th Annual Meeting of the International Society of Exposure Science. Utrecht, The Netherlands. October 12, 2016.
- AB-2. D. Vallero, P. Egeghy, T. Hong, and H. Hubbard. "Quantitative Visual Dashboard to Explore Exposures to Consumer Product Ingredients." Interdisciplinary Approaches to Health and the Environment. 26th Annual Meeting of the International Society of Exposure Science. Utrecht, The Netherlands. October 12, 2016.
- AB-3. K. Dionisio, D. Vallero, P. Egeghy, K. Isaacs, K. Thomas, and P. Price. A modular Human Exposure Model (HEM) framework to characterize near-field chemical exposure in LCIA and CAA. 26th Annual Meeting of the International Society of Exposure Science. Utrecht, The Netherlands. October 12, 2016.
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- AB-11. K. Isaacs, G. Glen, P. Egeghy, D. Vallero, M. Goldsmith and H. Ozkaynak. "Other Perspectives for Developing Exposure Estimates: SHEDS-Lite: Rapid Scenario-Based Exposure Predictions for Chemicals with Near-Field and Dietary Pathways". Exposure Science Integration to Protect Ecological Systems, Human Well-Being, and Occupational Health. 24th Annual Meeting of the International Society of Exposure Science. Cincinnati, Ohio, October 13, 2014. [http://www.ises2014.org/Images/Abstract\\_Book\\_as\\_of\\_10\\_8\\_14.pdf](http://www.ises2014.org/Images/Abstract_Book_as_of_10_8_14.pdf).
- AB-12. M. Goldsmith, D. Vallero, P. Egeghy, D. Chang, C. Grulke, and J. Wambaugh. "Ex Priori: Exposure-based Prioritization across Chemical Space". Exposure Science Integration to Protect Ecological Systems, Human Well-Being, and Occupational Health. 24th Annual Meeting of the International Society of Exposure

- Science. Cincinnati, Ohio, October 12, 2014.  
[http://www.ises2014.org/Images/Abstract\\_Book\\_as\\_of\\_10\\_8\\_14.pdf](http://www.ises2014.org/Images/Abstract_Book_as_of_10_8_14.pdf).
- AB-13. D. Vallero, P. Egeghy, T. Buckley, J. Wambaugh, K. Isaacs, R. Goldsmith, H. Özkaynak and J. Mitchell. "Mapping ExpoCast onto ToxCast". Environment and Health: Bridging South, North, East and West. Conference of ISEE, ISES and ISIAQ 23rd Annual Conference of the International Society of Exposure Science, Basel, Switzerland, August 21, 2013. <http://ehp.niehs.nih.gov/ehbase13/p-1-04-29/>.
- AB-14. J. Wambaugh, D. Vallero, A. Wang, A. Frame, C. Strobe, K. Dionisio, R. Goldsmith, D. Chang, C. Grulke, P. Egeghy, K. Isaacs, A. Liddell, R. Judson, R.W. Setzer and E. Cohen Hubal. "Rapidly Parameterized Consumer Use Modeling for High-Throughput Exposure Predictions". Environment and Health: Bridging South, North, East and West. Conference of ISEE, ISES and ISIAQ 23rd Annual Conference of the International Society of Exposure Science, Basel, Switzerland, August 21, 2013. <http://ehp.niehs.nih.gov/ehbase13/p-1-13-15/>
- AB-15. H. Özkaynak, K. Isaacs, J. Xue, R. Goldsmith, P. Egeghy, D. Vallero and J. Wambaugh. "High Throughput Exposure Prioritization of Chemicals Using a Screening-Level Probabilistic SHEDS-Lite Exposure Model". Environment and Health: Bridging South, North, East and West. Conference of ISEE, ISES and ISIAQ 23rd Annual Conference of the International Society of Exposure Science, Basel, Switzerland, August 21, 2013. <http://ehp.niehs.nih.gov/ehbase13/p-1-08-13/>
- AB-16. E.A. Cohen Hubal, J.R. Wambaugh and D.A. Vallero. "Rapidly Parameterized Consumer Use Modeling for High-Throughput Exposure Predictions." 23rd Annual Conference of the International Society of Exposure Science, Basel, Switzerland, August 21, 2013.
- AB-17. J. Wambaugh, D. Reif, S. Gangwal, J. Mitchell-Blackwood, J., Arnot, O. Joliet, R. Judson, P.P. Egeghy, J. Rabinowitz, D.A. Vallero, W. Setzer and E. Cohen Hubal. High-throughput simulation of environmental chemical fate for exposure prioritization. 22<sup>nd</sup> Annual Conference of the International Society of Exposure Science, Seattle, Washington, November 2012.
- AB-18. **D.A. Vallero. "Highlights of the National Academy of Sciences Report and Its Implications toward Chemical Safety for Sustainability". 22<sup>nd</sup> Annual Conference of the International Society of Exposure Science, Seattle, Washington, November 2012.**
- AB-19. J. Mitchell-Blackwood, D. Vallero and V. Zartarian. "Exposure Based Prioritization: State of the Science." 21<sup>st</sup> Annual Conference of the International Society of Exposure Science, Baltimore, Maryland, October 2011.
- AB-20. **D. Vallero and P. Egeghy. Chairs. "Structured Panel Discussion on Exposure-Based Chemical Prioritization." 21<sup>st</sup> Annual Conference of the International Society of Exposure Science, Baltimore, Maryland, October 2011.**
- AB-21. J. Mitchell-Blackwood, S. Isukapalli, P. Georgopoulos and D. Vallero. "Application of Sensitivity and Uncertainty Analysis in Chemical Prioritization." 21<sup>st</sup> Annual Conference of the International Society of Exposure Science, Baltimore, Maryland, October 2011.
- AB-22. **D. Vallero and D. James. "Pedagogical Strategies to Address the Macroethics of Nanobiotechnologies." 2011 Quest for Research Excellence: ORI Conference on Research Integrity, Washington, DC, August 29-30, 2011.**
- AB-23. J. Richmond-Bryant, S.S. Isukapalli, and D.A. Vallero. "Characterization of Spatiotemporal Variability in Air Pollutant Concentrations within Complex Urban Environments." American Association for Aerosol Research. Specialty Conference: Air Pollution and Health: Bridging the Gap from Sources to Health Outcomes. San Diego, California, March 22-26, 2010
- AB-24. S. Kimbrough, R. Shores, D. Whitaker, B. Mitchell, R. Baldauf, A. Vette, D. Vallero, C. Croghan, G. Hagler, J. Hirtz, V. Martinez and K. Black. "EPA/FHWA near-road study – Las Vegas implementation and experience." American Association for Aerosol Research Specialty Conference. Pollutant and Population Exposure: Sources. San Diego, California. March 22-26, 2010.
- AB-25. S. Kimbrough, R. Shores, D. Whitaker, B. Mitchell, R. Baldauf, A. Vette, D. Vallero, C. Croghan, G. Hagler, J. Hirtz, V. Martinez and K. Black. "EPA/FHWA near-road study – Characterization and variability of pollutant concentrations." American Association for Aerosol Research Specialty Conference. Pollutant and Population Exposure: Sources. San Diego, California. March 22-26, 2010.
- AB-26. Shores, R., Vette, A., Kimbrough, S., Whitaker, D., Martinez, V., Black, K., Baldauf, R. and Vallero, D. "Integration of Gas Chromatographs into the Federal Highway Administration/Environmental Protection

- Agency Near Road MSAT Study in Las Vegas, Nevada,” Air and Waste Management Association Conference and Exhibition 2009, Detroit, MI, June 23-26, 2009.
- AB-27. Kimbrough, S., Vette, A. Shores, R., Baldauf, R., Whitaker, D., Croghan, C. and Vallero, D. “The National Near-Road Mobile Source Air Toxics Study,” Air and Waste Management Association Conference and Exhibition 2009, Detroit, MI, June 23-26, 2009.
- AB-28. Vallero, D. “New Tools to Address Nanobiotechnological Research,” **Fifth International Conference on Ethical Issues in Biomedical Engineering, Brooklyn, New York, April 4, 2009.**
- AB-29. McKone, T.E., Arnot, J., Sohn, M. and Vallero, D. Characterizing source-to-dose relationships for persistent pollutants. *Epidemiology*. 19(6): S31 (November 2008). DOI: 10.1097/01.ede.0000339609.64105.ac.
- AB-30. McKone, T.E., Sohn, M., Maddalena, R. and Vallero, D. Addressing uncertainty and variability in ecological and human exposure assessment: A comparison. *Epidemiology*. 19(6): S278 (November 2008). DOI: 10.1097/01.ede.0000340309.40405.9e
- AB-31. Gronewold, A., Reckhow, K. and Vallero, D. Improving human and ecological exposure assessments: A Bayesian network modeling approach. *Epidemiology*. 19(6): S228-S229 (November 2008). DOI: 10.1097/01.ede.0000340181.65092.ab.
- AB-32. Vallero, D., Kominsky, J., and Crankshaw, O. “Relative Comparison of Chrysotile Asbestos Collection Efficiencies on Mixed-Cellulose Ester Filters,” ASTM Johnson Conference: Critical Issues in Monitoring Asbestos, Burlington, VT, July 16, 2008.
- AB-33. Reckhow, R.H. and Vallero, D.A. “Application of Multimedia Models for Human and Ecological Exposure Analysis,” 17th Annual Conference of the International Society of Exposure Analysis, Durham, North Carolina, October 17, 2007.
- AB-34. Maddalena, R. McKone, T. and Vallero, D. “A Case Study Investigation of Biological Exchange Surfaces in Ecological and Human Exposure Assessment,” 17th Annual Conference of the International Society of Exposure Analysis, Durham, North Carolina, October 17, 2007.
- AB-35. Peirce, J.J. and Vallero, D.A. “Building Environmental Cyberinfrastructure Networks,” 17th Annual Conference of the International Society of Exposure Analysis, Durham, North Carolina, October 17, 2007.
- AB-36. Dary, C., Georgopoulos, P.G., Vallero, D.A., Tornero-Velez, R., Morgan, M., Okino, M., Dellarco, M., Power, F. and Blancato, J. “Characterizing Chemical Exposure from Biomonitoring Data Using the Exposure Related Dose Estimating Model (ERDEM),” 17th Annual Conference of the International Society of Exposure Analysis, Durham, North Carolina, October 17, 2007.
- AB-37. Mangis, D., Knightes, C. and Vallero, D. “Human-Ecosystem Interactions: The Case of Mercury” 17th Annual Conference of the International Society of Exposure Analysis, Durham, North Carolina, October 17, 2007.
- AB-38. Vallero, D.A. Panel Discussion Chair: “Bridging Human and Ecological Exposure Sciences: A Window of Opportunity” (Maddalena, R., Co-Chair), 17th Annual Conference of the International Society of Exposure Analysis, Durham, North Carolina, October 17, 2007.
- AB-39. Vallero, D. “Disaster Exposure: The Four R’s” 17th Annual Conference of the International Society of Exposure Analysis, Durham, North Carolina, October 15, 2007.
- AB-40. Maddalena, R. Araujo, R. Vallero, D., and McKone, T. “Ecological and Human Exposure Assessment: Building on Common Ground,” Society of Environmental Toxicology and Chemistry - SETAC Europe, Seventeenth Annual Meeting, Porto, Portugal, June 15, 2007.
- AB-41. Laursen, T. Vallero, D., Lenoir, T., Clark, R., and Reichert, W. “The Next Stage in Responsible Conduct: Macroethics of Nanobiotechnological Research,” Fourth International Conference on Ethical Issues in Biomedical Engineering, Brooklyn, New York, April 20, 2007.
- AB-42. Vallero, D., Laursen, T., Lenoir, T., Clark, R., and Reichert, W. “Beyond Responsible Conduct: Macroethics of Nanobiotechnology,” Fourth International Conference on Ethical Issues in Biomedical Engineering, Brooklyn, New York, April 20, 2007.
- AB-43. Araujo, R., Vallero, D. and Suter, G. “Human and Ecological Exposure Science: Divergence and Rapprochement,” International Society of Exposure Assessment Conference, Paris, France, September 3, 2006.



- AB-44. Reckhow K., Babendreier J., and Vallero D., “Comparing the Utility of Multimedia Models for Human and Ecological Exposure Analysis: Two Cases,” International Society of Exposure Assessment Conference, Paris, France, September 3, 2006.
- AB-45. McKone, T., Riley W., Maddalena R., Rosenbaum, R., and Vallero D., “Common Issues in Human and Ecosystem Exposure Assessment: The Significance of Partitioning, Kinetics, and Uptake at Biological Exchange Surfaces,” International Society of Exposure Assessment Conference, Paris, France, September 3, 2006.
- AB-46. Lioy, P. Vallero, D., Foley, G., Blancato, J., DaLoia, J., Georgopoulos, P. Heiser, J., Kalb, P. and Reynolds, M. “The Urban Dispersion Program (UDP) NYC MSG05 Experiment,” International Society of Exposure Analysis, Annual Conference, Tucson, AZ, November 2, 2005.
- AB-47. Swartz, E., Stockburger, L. and Vallero, D. “Polycyclic Aromatic Hydrocarbons (PAHs) and Other Semi-Volatile Organic Compounds Collected in New York City in Response to the Events of 9/11,” 226th American Chemical Society, National Meeting, New York, New York, September 7-11, 2003.
- AB-48. Seila, R., Swartz, E., Lonneman, W., and Vallero, D. “Volatile Organic Compounds Measurements in New York City in Response to the Events of 9/11,” 226th American Chemical Society, National Meeting, New York, New York, September 7-11, 2003.
- AB-49. Vallero, D., Banks, Y., and Leovic, K., “Innovative Approaches to Human Exposure Assessment in Environmental Justice Communities,” National Conference on Environmental Science and Technology, Greensboro, North Carolina, September 9, 2002.
- AB-50. Vallero, D.A. and Peirce, J.J. “Measuring and Modeling the Transport of Endocrine Disrupting Dicarboximides and Degradation Products from the Soil to the Lower Troposphere,” *The Seventh Symposium on the Chemistry and Fate of Modern Pesticides*, Lawrence, Kansas, September, 1999.
- AB-51. Sheldon, L., Berry, M. and Vallero, D. “Bioaccumulation of POPs in Fish and Estimation of Human Dietary Exposure and Dose,” *Ninth Annual Meeting of the International Society of Exposure Analysis*, Athens, Greece, September 1999.

PUBLICATIONS AS PROCEEDINGS (Underlined when presenter; **Bold text indicates invited publication**)

- PP-1. Kimbrough, E. S., Shores, R.C. Whitaker, D. A. Mitchell, W.A., Baldauf, R.W., Vette, A.F., Vallero, D.A., Croghan, C.W., Hagler, G. Hirtz, Martinez, V. And Black, K. “Characterization and variability of pollutant concentrations for the Las Vegas implementation of the National Near-Road Mobile Source Air Toxics Study.” In Proceedings, 103rd Annual Conference of the Air & Waste Management Association, Calgary, AB, CANADA, June 22 - 25, 2010. Air & Waste Management Association, Pittsburgh, PA, Paper #556, 2010.
- PP-2. Shores, R., Vette, A., Kimbrough, S., Whitaker, D., Martinez, V., Black, K., Baldauf, R. and Vallero, D. “Integration of Gas Chromatographs into the Federal Highway Administration/Environmental Protection Agency Near Road MSAT Study in Las Vegas, Nevada,” Air and Waste Management Association Conference and Exhibition 2009, Detroit, MI, June 23-26, 2009.
- PP-3. **Vallero, D., Just Engineering: Peace, Justice, and Sustainability, *Engineers Working for Peace, Bucknell University, Lewisburg, PA, 2003.***
- PP-4. Steen, W. Vallero, D., Jones-Lepp, T. Cooter, E., Median-Vera, M., Bumgarner, J. Morgan, M., Thomas, K. and Robinette, D. Endocrine Disruptor Source-to-Dose Exposure Research, *Region/ORD Workshop on Endocrine Disruptors Summary Report*, U.S. Environmental Protection Agency, Atlanta, Georgia, 2001.
- PP-5. Vallero, D.A., Exposure Implications: Methods; Measurements; and Models. *Region/ORD Pesticides Workshop Summary Report*, U.S. Environmental Protection Agency, Chicago, Illinois, 26-27, 2000.
- PP-6. Vallero, D.A., Stockburger, L., Farnsworth, J.L. and Peirce, J.J. Analysis of the flux of an endocrine disrupting dicarboximide and its degradation products from the soil to the lower troposphere. Extended abstract in *Proceedings: Issues in the Analysis of Environmental Endocrine Disruptors*, and *Proceedings: Pharmaceuticals and Personal Care Products in the Environment – An Emerging Concern*, Division of Environmental Chemistry, American Chemical Society, San Francisco, California, March 26-31, 2000.
- PP-7. Vallero, D.A., Stockburger, L., Farnsworth, J.L. and Peirce, J.J., Supercritical fluid extraction of semi-volatile organic compounds from particles. Extended abstract in *Air and Waste Management Association*

- PM 2000: The Scientific Basis for Regulatory Decision-making Specialty Conference and Exhibition*, Charleston, South Carolina, January 25-28, 2000.
- PP-8. Vallero, D.A., and Peirce, J.J., Adapting a flux chamber to measure semivolatile endocrine disruptors, in *Air and Waste Management Association International Symposium on Measurement of Toxic and Related Pollutants*, Cary, North Carolina, 810-824, 1998.
- PP-9. Jones, T.L., Bumgarner, J.E. and Vallero, D.A., Multimedia analytical approaches to monitoring and measuring suspect endocrine disrupting compounds, in *Thirteenth Annual Waste Testing and Quality Assurance Symposium*, Arlington, Virginia, 11, 1997.
- PP-10. Vallero, D.A. and Bouchard, D.C., Multicompartmental fluxes of endocrine disrupting fungicides, in *Air and Waste Management Association International Symposium on Measurement of Toxic and Related Pollutants*, Research Triangle Park, North Carolina, 486-499, 1997.
- PP-11. Vallero, D.A., Endocrine disruptor research, in *Air and Waste Management Association International Symposium on Measurement of Toxic and Related Pollutants*, Research Triangle Park, North Carolina, 541-552, 1996.
- PP-12. **Vallero, D.A., Practical application of environmental indicators. *Proceedings, Regional Conference on Environmental Indicators: Great Plains, Great Lakes and Rocky Mountain Regions, Colorado Springs, CO, U.S. Environmental Protection Agency, 1993.***
- PP-13. Garner, J.H.B., Hyatt, D. E. and Vallero, D.A. Assessing exposure and risk to the nation's ecological resources, in *Measurement of Toxic and Related Air Pollutants*, Air and Waste Management Association, Research Triangle Park, North Carolina, 957-961, 1992.
- PP-14. **Peroff, N.C. and Vallero, D.A. Teaching urban and regional planning to urban administrators, *Proceedings of the Fourth National Conference on Teaching Public Administration, Lexington, KY, 142-147, 1981.***

PRESENTATIONS AND SEMINARS (Underlined when presenter; **Bold text indicates invited publication**)

- PS-1. **Vallero, D. Panel Moderator and Presenter: “Key Enabling Technologies: Striking the Balance between Regulation and Innovation.” Society for Risk Analysis: Risk Governance for Key Enabling Technologies. Venice, Italy. March 3, 2017.**  
**<http://www.sra.org/sites/default/files/pdf/events/SRA%20Forum%20Program%20-%20Online%20-%20Full.pdf>**
- PS-2. Vallero, D. “Risk Governance and Exposure Science.” Society for Risk Analysis: Risk Governance for Key Enabling Technologies. Venice, Italy. March 3, 2017.
- PS-3. Vallero, D. “Ethics and Infoveillance: Data Mining in Biomedical, Scientific and Social Science Research.” Responsible Conduct of Research Forum, Duke University, Durham, North Carolina, November 1, 2016. <https://gradschool.duke.edu/professional-development/programs/responsible-conduct-research/rcr-forums/2016-fall-rcr-forum-series>
- PS-4. D. Vallero, P. Egeghy, A. Varghese, and H. Hubbard. “A Draft Ontology for Occupational Exposure.” Interdisciplinary Approaches to Health and the Environment. 26th Annual Meeting of the International Society of Exposure Science. Utrecht, The Netherlands. October 12, 2016.
- PS-5. D. Vallero, P. Egeghy, T. Hong, and H. Hubbard. “Quantitative Visual Dashboard to Explore Exposures to Consumer Product Ingredients.” Interdisciplinary Approaches to Health and the Environment. 26th Annual Meeting of the International Society of Exposure Science. Utrecht, The Netherlands. October 12, 2016.
- PS-6. K. Dionisio, D. Vallero, P. Egeghy, K. Isaacs, K. Thomas, and P. Price. A modular Human Exposure Model (HEM) framework to characterize near-field chemical exposure in LCIA and CAA. 26th Annual Meeting of the International Society of Exposure Science. Utrecht, The Netherlands. October 12, 2016.
- PS-7. Price, P., D. Vallero, J. Bare, S. Csizar, D. Meyer, K. Dionisio, AND P. Egeghy. The Human Exposure Model (HEM): A Tool to Support Rapid Assessment of Human Health Impacts from Near-Field Consumer Product Exposures. LCA XVI, Charleston, SC, September 26 - 29, 2016.
- PS-8. **D. Vallero, “Air Pollution Basics.” Duke University, Pratt School of Engineering. September 26, 2016.**
- PS-9. **Vallero, D. "Misconduct." Panel Discussion. Postdoctoral Fellow Responsible Conduct of Research Forum, Duke University, Durham, North Carolina, September 8, 2016**

- PS-10. **D. Vallero, Invited presentation: “Biotechnology Viewed from an Environmental Perspective.” Briar Chapel Men’s Club. Chapel Hill, North Carolina, March 15, 2016.**
- PS-11. **D. Vallero, Invited presentation: “Environmental Science, Engineering & Technology in the Year 2025: What You Need to Know Now.” East Wake High School STEAM Night. Wendell, North Carolina. March 1, 2016.**
- PS-12. **D. Vallero, Invited presentation: “Biotechnology Viewed from an Environmental Perspective.” Briar Chapel Men’s Club. Chapel Hill, North Carolina, November 17, 2015.**
- PS-13. **D. Vallero, Invited lecture: “Adherence to the Scientific Method while Advancing Exposure Science.” A Tribute to Dr. Paul J. Lioy, Pioneer in Exposure Science. Rutgers University, Piscataway, New Jersey, November 12, 2015.**
- PS-14. **D. Vallero, Invited lecture: “Assessing & Managing Hazardous Waste Risks: An Introduction.” Duke University, Civil and Environmental Engineering. October 28, 2015.**
- PS-15. **D. Vallero, Invited Chair. “Exposure Science in Disaster Response: Lunchtime Panel.” Exposures in an Evolving Environment. 25th Annual Meeting of the International Society of Exposure Science. Henderson, Nevada, October 20, 2015.**
- PS-16. P. Egeghy, D. Vallero, I. Linkov, Z. Collier, and M. Wood. “Incorporating Expert Elicitation into a Decision Model for High Throughput Exposure Assessment.” Exposures in an Evolving Environment. 25th Annual Meeting of the International Society of Exposure Science. Henderson, Nevada, October 21, 2015.
- PS-17. **B. Alexander, M. Johnson, D. Vallero, and C. Weis. Invited lecture: “Minnesota Taconite Workers Health Study.” Upper Midwest Mining and Asbestos Workshop. Duluth, Minnesota, October 5, 2015.**
- PS-18. **Vallero, D. “Ethics and Infoveillance: The Engineer as Data Miner” Engineering Leadership in Action. Professional Engineers of North Carolina, 2015 Summer Conference. Myrtle Beach, South Carolina. June, 19, 2015.**
- PS-19. D. Meyer, K. Thomas, J. Bare, W. Ingwersen, D. Vallero, and S. Csiszar. “Chemical Safety and Sustainability: Life Cycle Human Exposure Modeling (LC-HEM).” 2015 NSF EPA STAR NCCLC and NSMDS Grantees Workshop. Washington, DC, June 10, 2015.
- PS-20. Z. Collier, D. Vallero, M. Wood, and P. Egeghy. “EPA ExpoCast Exposure-Based Prioritization.” Expert Elicitation Working Group Webinars. May 11, June 1, and June 17, 2015.
- PS-21. **D. Vallero. “Roundtable Discussion: Ethics Education and Training in Science and Engineering.” Invited lecture: The Rolf Buchdahl Symposium on Science, Technology & Human Values: Celebrating 100 Years of Rolf Buchdahl’s Life & Legacy. The Science, Technology and Society Program in the College of Humanities & Social Sciences, North Carolina State University. Raleigh, North Carolina, April 10, 2015.**
- PS-22. Mitchell, J., Pabon, N., Collier, Z, Egeghy, P., Cohen-Hubal, E., Linkov, I., and Vallero, D. “MCDA Case Study: A Decision Analytic Approach to Exposure-Based Chemical Prioritization.” In: Linkov, I. and Bates, M. Decision Analysis and Value of Information Analysis for Toxicology and Environmental Science.” Risk Assessment Specialty Section. Society of Toxicology. Risk & Decision Science Focus Area Webinar. November 12, 2014.
- PS-23. **D. Vallero, M. Goldsmith and J. Bare. “Life-Cycle Inventory/Impact Assessment in the context of Chemical Risk Assessment: An Informatics-driven Scoping Review”. Exposure Science Integration to Protect Ecological Systems, Human Well-Being, and Occupational Health.24th Annual Meeting of the International Society of Exposure Science. Cincinnati, Ohio, October 14, 2014.**  
[http://www.ises2014.org/Images/Program10\\_11\\_14.pdf](http://www.ises2014.org/Images/Program10_11_14.pdf)
- PS-24. K. Isaacs, G. Glen, P. Egeghy, D. Vallero, M. Goldsmith and H. Ozkaynak. “Other Perspectives for Developing Exposure Estimates: SHEDS-Lite: Rapid Scenario-Based Exposure Predictions for Chemicals with Near-Field and Dietary Pathways”. Exposure Science Integration to Protect Ecological Systems, Human Well-Being, and Occupational Health.24th Annual Meeting of the International Society of Exposure Science. Cincinnati, Ohio, October 13, 2014. [http://www.ises2014.org/Images/Program10\\_11\\_14.pdf](http://www.ises2014.org/Images/Program10_11_14.pdf)
- PS-25. M. Goldsmith, D. Vallero, P. Egeghy, D. Chang, C. Grulke, and J. Wambaugh. “Ex Priori: Exposure-based Prioritization across Chemical Space”. Exposure Science Integration to Protect Ecological Systems, Human Well-Being, and Occupational Health.24th Annual Meeting of the International Society of Exposure Science. Cincinnati, Ohio, October 12, 2014. [http://www.ises2014.org/Images/Program10\\_11\\_14.pdf](http://www.ises2014.org/Images/Program10_11_14.pdf).

- PS-26. **Vallero, D.** Invited lecture: “The Role of Chemistry in Exposure Science” Departmental Seminar, Department of Chemistry, North Carolina Central University, Durham, North Carolina, September 22, 2014.
- PS-27. **Vallero, D.** Invited lecture: “Integrating Toxicology and Exposure Science to Prioritize Chemicals in the Marketplace” Integrated Toxicology and Environmental Health Program Seminar, Nicholas School of the Environment, Duke University, Durham, North Carolina, September 19, 2014.
- PS-28. **Vallero, D.** Invited Moderator. “Exposure Science in the 21<sup>st</sup> Century: Q&A for Paul Lioy” National Institute of Environmental Health Sciences and U.S. Environmental Protection Agency. Research Triangle Park, North Carolina. April 3, 2014.  
<http://www.niehs.nih.gov/news/newsletter/2014/5/science-exposure/>.
- PS-29. **Vallero, D.** Invited lecture: “Ethics in the Era of Inveillance: Data Mining in Biomedical, Scientific & Social Science Research” Responsible Conduct of Research Forum, Duke University, Durham, North Carolina, Course No. GS711-02. February 20, 2014.
- PS-30. **Vallero, D.** Invited lecture: “Misconduct.” Panel Discussion. Postdoctoral Fellow Responsible Conduct of Research Forum, Duke University, Durham, North Carolina, October 16, 2013.
- PS-31. **Vallero, D.** Invited Co-facilitator, “Responsible Conduct of Research Orientation for PhD Students.” Duke University, Graduate School Durham, North Carolina, August 22 and 23, 2013.
- PS-32. **Vallero, D.** Invited lecture: “The History and Scientific Rationale for Environmental Compliance: E101 for the Safety Professional.” Tarheel Chapter American Society of Safety Engineers. Charlotte, North Carolina, August 1, 2013.
- PS-33. **Vallero, D.** Invited lecture: “Ethics: Key Aspect of Research Experience for Undergraduates.” REU Site: Engineering Next Generation Energy Processes and Systems. University of Connecticut, Storrs, CT, June 20, 2013.
- PS-34. **Vallero, D.** Invited lecture: “Ethics: Key Aspect of Research Experience for Undergraduates.” Research Experiences for Undergraduates Site Program for Increasing Diversity at Duke Engineering. National Science Foundation. Duke University, Durham, North Carolina, June 6, 2013.
- PS-35. **Vallero, D.** “Plastics Recycling.” Invited Interview: *Now with Alex Wagner*, MSNBC, April 25, 2013.
- PS-36. **Vallero, D.** “Plastics Recycling.” Invited Interview: *NBC Today Show*, April 21, 2013,
- PS-37. Randall, C.J. and **Vallero, D.** “Coco’s Earth Day Surprise.” St. Thomas More Preschool, Chapel Hill, North Carolina, April 21, 2013.
- PS-38. **Vallero, D.** Invited lecture: “Preventive Ethics in Scientific Research: Insights from Environmental & Engineering Disasters” Responsible Conduct of Research Forum, Duke University, Durham, North Carolina, Course No. GS711-01. January 29, 2013.
- PS-39. **Vallero, D.** Invited Co-facilitator, “Responsible Conduct of Research Orientation for PhD Students.” Duke University, Graduate School Durham, North Carolina, August 23 and 24, 2012.
- PS-40. **Vallero, D.** Invited lecture: “Ethics: Key Aspect of Research Experience for Undergraduates.” Research Experiences for Undergraduates Site Program for Increasing Diversity at Duke Engineering. National Science Foundation. Duke University, Durham, North Carolina, June 21, 2012.
- PS-41. **Vallero, D.** Invited lecture: “Emerging Approaches for Exposure-Based Prioritization. Work-In-Progress Seminar Series. U.S. Environmental Protection Agency. Research Triangle Park, North Carolina, June 14, 2012.
- PS-42. **Vallero, D.** Invited lecture: “Ethics: Key Aspect of Research Experience for Undergraduates.” REU Site: Engineering Next Generation Energy Processes and Systems. University of Connecticut, Storrs, CT, June 7, 2012.
- PS-43. **Vallero, D.** Invited lecture: “Beyond GLP: Exposure Science in the 21<sup>st</sup> Century.” Joint Meeting of Triad Drug Discovery Discussion Group and Central North Carolina Chapter of the American Chemical Society. North Carolina Agriculture and Technology State University, Greensboro, North Carolina, May 17, 2012.
- PS-44. Randall, C.J. and **Vallero, D.** “Earth.” (*Scribbles*, May 2012 Issue). Christ Church Preschool, Chapel Hill, North Carolina, April 19, 2012.
- PS-45. **Vallero, D.** Invited lecture: “The Scientific Method in the 21<sup>st</sup> Century: Is Boyle Still Relevant?” Responsible Conduct of Research Forum, Duke University, Durham, North Carolina, Course No. GS311-09. April 17, 2012.

- PS-46. **Vallero, D. Invited lecture: “Ethics in Scientific Authorship & Intellectual Property.”** Networking and Leadership Training Organization. Research Triangle Park, North Carolina, February 7, 2012.
- PS-47. **Vallero, D. Invited Panel Chair. “Biomimicry: Listening to Your Mother (Nature).”** U.S. Environmental Protection Agency, Research Triangle Park, North Carolina, January 26, 2012.
- PS-48. **Vallero, D. Invited lecture: “Nitrogen: A Biochemodynamic Regulatory Perspective.”** Department of Public Works. Durham, North Carolina. January 11, 2012.
- PS-49. Mitchell-Blackwood, J., Vallero, D. and Egeghy, P. “Challenging Exposure Prioritization Approaches,” Annual Meeting, Society for Risk Analysis, Charleston, South Carolina, December 7, 2011.
- PS-50. **Vallero, D.** and Egeghy, P. “Introduction to Chemical Safety for Sustainability: Exposure-based Prioritization,” Annual Meeting, Society for Risk Analysis, Charleston, South Carolina, December 7, 2011.
- PS-51. **Vallero, D. "Misconduct." Panel Discussion. Postdoctoral Fellow Responsible Conduct of Research Forum, Duke University, Durham, North Carolina, December 1, 2011.**
- PS-52. **Vallero, D. "The Ethics of Wet System Engineering." Responsible Conduct of Research Forum, Duke University, Durham, North Carolina, Course No. GS311-09. November 29, 2011.**
- PS-53. **Vallero, D. Keynote Panel Member, Ethics & Integrity in Conducting and Reporting Research. Critical Issues Symposium: The Responsible Researcher: Conscience and Collaboration. Sigma Xi Annual Meeting & International Research Conference. Raleigh, North Carolina. November 11, 2011.**
- PS-54. **Vallero, D. “Integrity: Metric of Success,”** Sigma Xi Annual Meeting & International Research Conference. Raleigh, North Carolina. November 11, 2011.
- PS-55. **Vallero, D. Symposium Chair: “Improving Exposure Science for Environmental Science - B” (Fan, T., Co-Chair), 21<sup>st</sup> Annual Conference of the International Society of Exposure Analysis, Baltimore, Maryland, October 25, 2011.**
- PS-56. **Vallero, D.** and Zartarian, V. “Exposure Based Prioritization: State of the Science,” 21<sup>st</sup> Annual Conference of the International Society of Exposure Analysis, Baltimore, Maryland, October 26, 2011.
- PS-57. **Vallero, D. Invited lecture: “Exposure Based Prioritization: Risk 21 – Confidence in Regulatory Decision Making through Advancement of Exposure Assessment and Risk Analysis Methodology,”** 21<sup>st</sup> Annual Conference of the International Society of Exposure Analysis, Baltimore, Maryland, October 26, 2011.
- PS-58. **Vallero, D.** and Egeghy, P. “Innovative and Emerging Approaches for Exposure-Based Prioritization,” 21<sup>st</sup> Annual Conference of the International Society of Exposure Analysis, Baltimore, Maryland, October 26, 2011.
- PS-59. Mitchell-Blackwood, J, Isukapalli, S, Georgopoulos, P. and Vallero, D. “Application of Sensitivity/Uncertainty Analysis in Chemical Prioritization,” 21<sup>st</sup> Annual Conference of the International Society of Exposure Analysis, Baltimore, Maryland, October 26, 2011.
- PS-60. Ozkaynak, H., Mitchell-Blackwood, J. and Vallero, D. “Rapid Screening and Prioritization Using SHEDS and EFAST2,” 21<sup>st</sup> Annual Conference of the International Society of Exposure Analysis, Baltimore, Maryland, October 26, 2011.
- PS-61. **Vallero, D.,** Egeghy, P. and J. Mitchell-Blackwood. Workshop Leads, Exposure-Based Chemical Prioritization Workshop II: Extending Capabilities for High Throughput Assessment, U.S. Environmental Protection Agency, Research Triangle Park, North Carolina, September 26-27, 2011.
- PS-62. Mitchell-Blackwood, and Vallero, D., “Lesson Learned from the Prioritization Model Challenge,” Exposure-Based Chemical Prioritization Workshop II: Extending Capabilities for High Throughput Assessment, Research Triangle Park, North Carolina, September 26, 2011.
- PS-63. **Vallero, D. Invited Co-facilitator, “Responsible Conduct of Research Orientation for PhD Students.”** Duke University, Graduate School Durham, North Carolina, August 25 and 26, 2011.
- PS-64. Mitchell-Blackwood, J. Egeghy, P. and Vallero, D., “Bridging the Capabilities of Existing Human Exposure Models with Current Needs,” 2011 Association of Environmental Engineers and Science Professors, Education and Research Conference, Tampa, Florida, July 2011.
- PS-65. Mitchell-Blackwood, J., Egeghy, P. and Vallero, D. “Exposure-Based Prioritization of Environmental Chemicals.” Society for Risk Analysis Exposure Assessment Specialty Group Tele-seminar. [http://www.sra.org/easg/docs/SRAEASG\\_06-08-2011.pdf](http://www.sra.org/easg/docs/SRAEASG_06-08-2011.pdf).

- PS-66. **Vallero, D.** Invited lecture: “Research Integrity for the Engineer and the Engineering Profession.” REU Site: Engineering Next Generation Energy Processes and Systems. University of Connecticut, Storrs, CT, June 7, 2011.
- PS-67. **Vallero, D.** Invited lecture: "Misconduct." Panel Discussion. Postdoctoral Fellow Responsible Conduct of Research Forum, Duke University, Durham, North Carolina, April 21, 2011.
- PS-68. **Vallero, D.** Invited lecture: "Waste Not, Want Not, or, An Ounce of Prevention: Revisiting the Aphorisms." Responsible Conduct of Research Forum, Duke University, Durham, North Carolina, Course No. GS311-07. March 22, 2011.
- PS-69. **Vallero, D.** Invited lecture: "Revisiting the ‘Bio’ in Bioethics." 2011 National Undergraduate Bioethics Conference. Duke University, Durham, North Carolina. March 19, 2011.
- PS-70. **Vallero, D.** Invited lecture: "Misconduct." Panel Discussion. Postdoctoral Fellow Responsible Conduct of Research Forum, Duke University, Durham, North Carolina, November 18, 2010.
- PS-71. **Vallero, D.** Invited lecture: "Global Bioethics: Convergence of Environmental and Biomedical Ethics." Responsible Conduct of Research Forum, Duke University, Durham, North Carolina, Course No. GS311-05. October 26, 2010.
- PS-72. **Vallero, D.** Invited Co-facilitator, “Responsible Conduct of Research Orientation for PhD Students.” Duke University, Graduate School Durham, North Carolina, August 19 and 20, 2010.
- PS-73. Kimbrough, E. S., Shores, R.C. Whitaker, D. A. Mitchell, W.A., Baldauf, R.W., Vette, A.F., Vallero, D.A., Croghan, C.W., Hagler, G. Hirtz, Martinez, V. And Black, K. “Characterization and variability of pollutant concentrations for the Las Vegas implementation of the National Near-Road Mobile Source Air Toxics Study.” 103rd Annual Conference of the Air & Waste Management Association, Calgary, AB, Canada, June 22 - 25, 2010.
- PS-74. **Vallero, D.**, Egeghy, P. and E. Cohen-Hubal. Workshop Leads, “Exposure-Based Chemical Prioritization Workshop: Exploring Opportunities for Collaboration,” U.S. Environmental Protection Agency, Research Triangle Park, North Carolina, April 6-7, 2010.
- PS-75. **Vallero, D.** Invited lecture. "Humility and Hubris in Science: The Rewards and Risks of Emerging Technologies." Responsible Conduct of Research Forum, Duke University, Durham, North Carolina, Course No. GS31-09. March 2, 2010.
- PS-76. **Vallero, D.** Invited lecture: “Ethics and Professionalism in Mechanical Design.” Mechanical Engineering 141, Duke University, Durham, North Carolina, October 30, 2009.
- PS-77. **Vallero, D.** Invited lecture: “Environmental Implications of Biotechnology,” Responsible Conduct of Research Forum, Duke University, Durham, North Carolina, October 27, 2009.
- PS-78. **Vallero, D.** Invited Co-facilitator, “Responsible Conduct of Research Orientation for PhD Students.” Duke University, Graduate School Durham, North Carolina, August 20 and 21, 2009.
- PS-79. **Vallero, D.** Isukapalli, S, Georgopoulos, P. and Liroy, P. Invited lecture: “Improved Assessment of Risks from Emergency Events: Application of Human Exposure Measurements.” 4th Annual Interagency Workshop: Using Environmental Information to Prepare and Respond to Emergencies, New York, New York, July 14, 2009.
- PS-80. **Zenick, H.** and **Vallero, D.** Invited lecture: “EPA’s Environmental Health Programs.” Interoperability Summit. American Institute of Medical and Biological Engineering. Washington, DC, June 1 and 2, 2009.
- PS-81. **Isukapalli, S,** Georgopoulos, P. Liroy, P. and **Vallero, D.** Invited lecture: “Integrating Human Exposures for Improved Assessment of Risks from Emergency Event.” New York City Continuity of Operations Conference, New York, New York, June 2, 2009.
- PS-82. **Vallero, D.** Invited lecture: “A Caustic Issue: Case Analysis.” Mechanical Engineering 160, Duke University, Durham, North Carolina, April 16, 2009.
- PS-83. **Vallero, D.** Invited Panel Co-Chair, “Nanotechnology and Ethics” Session. Fifth International Conference on Ethical Issues in Biomedical Engineering, Brooklyn, New York, April 4, 2009.
- PS-84. **Vallero, D.** Invited lecture: “New Tools to Address Nanobiotechnological Research,” Presentation in the “Nanotechnology and Ethics” Session. Fifth International Conference on Ethical Issues in Biomedical Engineering, Brooklyn, New York, April 4, 2009.

- PS-85. **Vallero, D. and Maguire, L. Invited lecture: “Social Responsibilities in Engineering and Environmental Science Research,” Responsible Conduct of Research Forum, Duke University, Durham, North Carolina, March 23, 2009.**
- PS-86. **Vallero, D.A.** “Implications and Drivers: Fate of Nanoparticles in the Atmosphere.” Nanoparticle Air Monitoring Workshop, Research Triangle Park, North Carolina, March 2, 2009.
- PS-87. **Vallero, D. Invited lecture: “Case Study: Sound Science versus Public Health,” Professional Ethics for Environmental Practitioners – Environment 277, Duke University, Durham, North Carolina, January 28, 2009.**
- PS-88. **Vallero, D. Invited Co-facilitator, “Responsible Conduct of Research Orientation for PhD Students.” Duke University, Graduate School Durham, North Carolina, August 21 and 22, 2008.**
- PS-89. **Vallero, D.** Panel Chair: “Characterizing Global Exposures to Persistent Organics (POPS): The Role of Models,” 17th Annual Conference of the International Society of Exposure Analysis, Durham, North Carolina, October 13, 2007.
- PS-90. **Vallero, D.** “Ethics and Sustainability,” Community Design and Green Architecture - Environmental Studies 490, University of North Carolina at Chapel Hill, October 9, 2008.
- PS-91. **Vallero, D. Invited lecture: “Nanotechnology Rewards, Risks and Ethical Challenges,” NSF Sustainability, Energy, and Engineering Undergraduate Research Experience Program, North Carolina State University, Raleigh, North Carolina, June 18, 2008.**
- PS-92. **Vallero, D.** “Nanomaterials Research: Human Exposure and Atmospheric Sciences,” Scientist-to-Scientist Nanomaterials Exposure Meeting. National Exposure Research Laboratory, Las Vegas, Nevada, May 13, 2008.
- PS-93. **Vallero, D. Invited lecture: “Scale and Complexity: Emerging Environmental Systems,” Scripps Howard Institute on the Environment, Florida Atlantic University, Center for Environmental Studies, Jupiter, Florida, May 17, 2008.**
- PS-94. **Vallero, D. Invited lecture: “Green Engineering and the Future Engineer,” Keynote Address: Engineering EXPO, University of Kansas, Lawrence, Kansas, February 22, 2008.**
- PS-95. **Vallero, D. Invited lecture: “Socially Responsible Research in Science and Engineering,” Responsible Conduct of Research Forum, Duke University, Durham, North Carolina, November 16, 2007.**
- PS-96. **Vallero, D. Invited lecture: “Ethics and Sustainability,” Community Design and Green Architecture - Environmental Studies 490, University of North Carolina at Chapel Hill, November 15, 2007.**
- PS-97. **Vallero, D. Invited Panel Member: “Global Warming: Eco Week Issue,” Duke University, Durham, North Carolina, November 14, 2007.**
- PS-98. **Vallero, D.** “Integrity for Engineers,” Duke University, Pratt School of Engineering, Durham, North Carolina, November 8, 2007.
- PS-99. **Vallero, D. Invited lecture: “Importance of Scale in Environmental Systems: From Nanomaterial Exposures to Global Climate,” University-Wide Lecture Series, Florida Atlantic University, Center for Environmental Studies, Boca Raton, Florida, October 29, 2007.**
- PS-100. **Vallero, D. Invited lecture: “Emerging Techniques in Indoor Environmental Exposures: Airborne Asbestos,” Indoor Air Quality Association, Palm Beach/Treasure Coast Chapter, West Palm Beach, Florida, October 30, 2007.**
- PS-101. **Vallero, D. Invited Panel Member, “Service Leadership,” Newman Center Retreat, Raleigh Diocese, North Carolina State University, Raleigh, North Carolina, October 27, 2007.**
- PS-102. **Vallero, D.A. Invited Symposium Chair: “Bridging Human and Ecological Exposure Sciences: A Window of Opportunity” (Maddalena, R., Co-Chair), 17th Annual Conference of the International Society of Exposure Analysis, Durham, North Carolina, October 17, 2007.**
- PS-103. Reckhow, R.H. and **Vallero, D.A.** “Application of Multimedia Models for Human and Ecological Exposure Analysis,” 17th Annual Conference of the International Society of Exposure Analysis, Durham, North Carolina, October 17, 2007.
- PS-104. Maddalena, R. McKone, T. and Vallero, D. “A Case Study Investigation of Biological Exchange Surfaces in Ecological and Human Exposure Assessment,” 17th Annual Conference of the International Society of Exposure Analysis, Durham, North Carolina, October 17, 2007.
- PS-105. Peirce, J.J. and **Vallero, D.A.** “Building Environmental Cyberinfrastructure Networks,” 17th Annual Conference of the International Society of Exposure Analysis, Durham, North Carolina, October 17, 2007.

- PS-106. Dary, C., Georgopoulos, P.G., Vallero, D.A., Tornero-Velez, R., Morgan, M., Okino, M., Dellarco, M., Power, F. and Blancato, J. "Characterizing Chemical Exposure from Biomonitoring Data Using the Exposure Related Dose Estimating Model (ERDEM)," 17th Annual Conference of the International Society of Exposure Analysis, Durham, North Carolina, October 17, 2007.
- PS-107. Mangis, D., Knightes, C. and Vallero, D. "Human-Ecosystem Interactions: The Case of Mercury" 17th Annual Conference of the International Society of Exposure Analysis, Durham, North Carolina, October 17, 2007.
- PS-108. **Vallero, D.A. Invited Panel Discussion Chair: "Bridging Human and Ecological Exposure Sciences: A Window of Opportunity" (Maddalena, R., Co-Chair), 17th Annual Conference of the International Society of Exposure Analysis, Durham, North Carolina, October 17, 2007.**
- PS-109. **Vallero, D.A. Invited Discussant, Panel Discussion: "The Path Forward in Disaster Preparedness since WTC - Exposure Characterization and Mitigation: Substantial Unfinished Business!" Chair: Rodes, C.E., 17th Annual Conference of the International Society of Exposure Analysis, Durham, North Carolina, October 16, 2007.**
- PS-110. **Vallero, D. Invited lecture: "Beyond Responsible Conduct: Engineering Macroethics," Responsible Conduct of Research Meeting, Collaborative Institutional Training Initiative, Seattle, Washington, October 4, 2007.**
- PS-111. **Vallero, D. Invited lecture: "Environmental Protection: Emerging Themes," League of Women Voters, Environmental Committee, Raleigh, North Carolina, September 27, 2007.**
- PS-112. **Vallero, D. Invited Co-facilitator, "Responsible Conduct of Research Orientation for PhD Students." Duke University, Graduate School Durham, North Carolina, August 23 and 24, 2007.**
- PS-113. **Vallero, D.** "National Exposure Research Laboratory's Research Related to Persistent, Bioaccumulating Toxics," USEPA Workshop: Building an Integrated Surveillance System for Emerging Chemicals in the Great Lakes and Nationwide, Chicago, Illinois, July 16-18, 2007.
- PS-114. Maddalena, R. Araujo, R., Vallero, D. and McKone, T. "Ecological and Human Exposure Assessment: Building on Common Ground," Society of Environmental Toxicology and Chemistry - SETAC Europe, Seventeenth Annual Meeting, Porto, Portugal, June 15, 2007.
- PS-115. **Vallero, D. Invited lecture: "Hazardous Wastes: An Engineering Challenge for the 21st Century," Osher Lifelong Learning Institute, Duke University, Durham, North Carolina, May 22, 2007.**
- PS-116. **Vallero, D. Invited Panel Moderator. "Public Policy, Innovation, and Entrepreneurship: Where Does North Carolina Fit?" Nanotechnology and the Emerging Global Knowledge Economy: Challenges and Opportunities in an International Context. Center on Globalization, Governance & Competitiveness, Social Science Research Institute, Duke University, Durham, North Carolina, March 30, 2007.**
- PS-117. **Vallero, D. Invited Panel Member. "Effective Dissemination and Sustainability," Principal Investigator Meeting, National Science Foundation, Washington, DC, January 8 and 9, 2007.**
- PS-118. **Vallero, D.** "Engineering Ethics: The Bridge between Academic and Professional Life," Duke University, Pratt School of Engineering, Durham, North Carolina, November, 2006.
- PS-119. **Vallero, D.** Facilitator: University Partnership Agreement Collaborator Meeting, Lawrence Berkeley National Laboratory, Research Triangle Park, North Carolina, September 21-22, 2006.
- PS-120. **Vallero, D. Invited Panel Moderator. "Ecosystem and Human Health," International Society of Exposure Assessment Conference, Paris, France, September 3, 2006.**
- PS-121. Araujo, R., **Vallero, D.** and Suter, G. "Human and Ecological Exposure Science: Divergence and Rapprochement," International Society of Exposure Assessment Conference, Paris, France, September 3, 2006.
- PS-122. Reckhow K., Babendreier J., and **Vallero D.**, "Comparing the Utility of Multimedia Models for Human and Ecological Exposure Analysis: Two Cases," International Society of Exposure Assessment Conference, Paris, France, September 3, 2006.
- PS-123. McKone, T., Riley W., Maddalena R., Rosenbaum, R., and Vallero D., "Common Issues in Human and Ecosystem Exposure Assessment: The Significance of Partitioning, Kinetics, and Uptake at Biological Exchange Surfaces," International Society of Exposure Assessment Conference, Paris, France, September 3, 2006.
- PS-124. **Vallero, D.** Co-facilitator, "Responsible Conduct of Research Orientation" Duke University, Graduate School Durham, North Carolina, August 23 and 24, 2006.



- PS-125. **Vallero, D.** Invited Panel Member, “Mentoring” module co-facilitator (with D. Bell), “Engineering Case Study” breakout facilitator, and “Preventive Ethics” plenary lead, **Responsible Conduct of Research Training, The Graduate School, Duke University, August 25 and 26, 2006.**
- PS-126. **Vallero, D.** Invited lecture: “Conflicts of Interest” and “Academic Integrity” modules, **Responsible Conduct of Research Training, North Carolina Central University, August 18, 2006.**
- PS-127. **Vallero, D.** Invited lecture: “Macroethics of Emergent Technologies,” *NSF Sustainability, Energy, and Engineering Undergraduate Research Experience Program, North Carolina State University, Raleigh, North Carolina, July 11, 2007.*
- PS-128. **Vallero, D.** Facilitator: University Partnership Agreement Collaborator Meeting, Environmental and Occupational Health Sciences Institute, Research Triangle Park, North Carolina, June 6-7, 2006.
- PS-129. **Vallero, D.** and Laursen, T. “Panacea or Pandora's Box: New Opportunities and New Risks at the Nanoscale,” Nanotechnology, Biotechnology and Society Symposium, Center for Integrated Education Research and Development, Duke University, Durham, North Carolina, March 31, 2006.
- PS-130. **Vallero, D.** “Ethics: A Biomedical Engineering Design Concept,” Duke University, Pratt School of Engineering, Durham, North Carolina, March 21, 2006.
- PS-131. **Vallero, D.** Facilitator: University Partnership Agreement Collaborator Meeting, Lawrence Berkeley National Laboratory, Las Vegas, Nevada, March 2006.
- PS-132. **Vallero, D.** Invited Co-facilitator, “Interactive Workshop on Advancing Ethics Education for Nanoscale and Emerging Technology Researchers.” **Duke University, Durham, North Carolina, March 6, 2006.**
- PS-133. **Vallero, D.** Invited lecture: “Sustainability from Nano to Global Scales,” Panel on Emerging Technologies and the Environment, Research Triangle Universities Symposium on Environmental Conflict Resolution, National Resources Leadership Institute, Raleigh, North Carolina, February 10, 2006.
- PS-134. **Vallero, D.** “Engineering Ethics: The Bridge between Academic and Professional Life,” Duke University, Pratt School of Engineering, Durham, North Carolina, November 10, 2005.
- PS-135. Liyo, P. **Vallero, D.**, Foley, G., Blancato, J., DaLoia, J., Georgopoulos, P. Heiser, J., Kalb, P. and Reynolds, M. “The Urban Dispersion Program (UDP) NYC MSG05 Experiment,” International Society of Exposure Analysis, Annual Conference, Tucson, AZ, November 2, 2005.
- PS-136. **Vallero, D.** Invited lecture: “Environmental Justice and Sound Science,” **Duke University, Graduate School Responsible Conduct of Research Forum, Durham, North Carolina, October 24, 2005.**
- PS-137. **Vallero, D.** “Mentoring” module co-lead (with L. Deneef), faculty panel member, and “Engineering Case Study” breakout facilitator, Responsible Conduct of Research Training, The Graduate School, Duke University, August 26 and 27, 2005.
- PS-138. **Vallero, D.** “Conflicts of Interest” and “Academic Integrity” modules, **Responsible Conduct of Research Training, North Carolina Central University, August 19, 2005.**
- PS-139. **Vallero, D.** “Green Engineering and Sustainable Design,” Duke University, Ecological Environmental Engineering Seminar, Durham, North Carolina, March 21, 2005.
- PS-140. **Vallero, D.** “Ethics by Design: Professional Ethics for Engineers,” Duke University, Masters of Engineering Management Workshop, Durham, North Carolina. February 10, 2005.
- PS-141. **Vallero, D.**, Conner, T. and Highsmith, R. “Exposure Research Supporting the EPA Asbestos Action Plan,” Asbestos Site Evaluation and Cleanup Workshop, Safety Harbor, Florida, December 8, 2004
- PS-142. **Vallero, D.** “Environmental Ethics: Greening Duke’s Research,” Duke University, Graduate School Responsible Conduct of Research Workshop, Durham, North Carolina, November 8, 2004.
- PS-143. **Vallero, D.** “Current and Emerging Techniques for Characterizing Tropospheric Aerosols,” **Mechanics in the Environment Seminar Series, Duke University, Durham, North Carolina, September 1, 2004.**
- PS-144. **Vallero, D.** “Scientific Conflicts of Interest,” **Responsible Conduct of Research Conference, North Carolina Central University, Durham, North Carolina, August 20, 2004.**
- PS-145. **Vallero, D.** “Ethics across the Curriculum: A Plan for Undergraduate Engineering at Duke,” **Duke University, Kenan Center for Ethics Faculty Council, Durham, North Carolina, April 21, 2004.**

- PS-146. **Vallero, D.** “Ethical Decision-Making and the Practice of Engineering: *Ethike Aretai and Credat Emptor*,” Duke University, Masters of Engineering Management Workshop, Durham, North Carolina, March 4, 2004.
- PS-147. **Vallero, D.** Faculty Facilitator, “Second Student Symposium: Characterization of the Air, Water and Soil at NCCU,” National Exposure Research Laboratory, Research Triangle Park, North Carolina, December 4, 2003.
- PS-148. **Vallero, D.** “Personal Values and Professional Ethics in Science and Engineering: *Ethike Aretai and Credat Emptor*,” Duke University, Graduate School Responsible Conduct of Research Workshop, Durham, North Carolina, November 7, 2003.
- PS-149. **Vallero, D.** “**Just Engineering: Peace; Justice; and Sustainability,**” Engineers for Peace Conference, Bucknell University, Lewisburg, PA, Invited lecture: November 14, 2003.
- PS-150. Swartz, E., Stockburger, L. and Vallero, D. “Polycyclic Aromatic Hydrocarbons (PAHs) and Other Semi-Volatile Organic Compounds Collected in New York City in Response to the Events of 9/11,” 226th American Chemical Society, National Meeting, New York, New York, September 7-11, 2003.
- PS-151. Seila, R., Swartz, E., Lonneman, W., and Vallero, D. “Volatile Organic Compounds Measurements in New York City in Response to the Events of 9/11,” 226th American Chemical Society, National Meeting, New York, New York, September 7-11, 2003.
- PS-152. **Vallero, D.** “Importance of Information in Environmental Justice,” North Carolina Central University Environmental Science Seminar Series, Durham, North Carolina, September 8, 2003.
- PS-153. **Vallero, D.** Faculty Facilitator, “Student Symposium: Characterization of the Air, Water and Soil at NCCU,” National Exposure Research Laboratory, Earth Day Celebration, Research Triangle Park, North Carolina, April 22, 2003.
- PS-154. **Vallero, D.** “**A Citizen’s Guide to Risk Assessment,**” Leadership for Environmental Justice Program, North Carolina State University, Apex, North Carolina, March 22, 2003.
- PS-155. **Vallero, D.** “Undergraduate Science Programs at NCCU,” North Carolina Transfer Assistance in the Biomedical Sciences Program – Symposium, Durham, North Carolina, February 3, 2003.
- PS-156. **Vallero, D.** “Ethics and Justice in Environmental Science and Engineering,” Visiting Scientist Program, Shaw University, Raleigh, North Carolina, November 16, 2002.
- PS-157. **Vallero, D.** “The Ethical Engineer: Recent Lessons in Bridging the Social and Physical Sciences,” Cornell University Fall Seminar Series on Engineering Ethics, Ithaca, New York, October 30, 2002.
- PS-158. **Vallero, D.** Moderator: “Environmental Science Emerging Technology Seminar Series,” Co-sponsored by North Carolina Central University, Environmental Science Program, and Duke University Pratt School of Engineering and Program in Science, Technology and Human Values, Durham, North Carolina, 2002-2003 Academic Year.
- PS-159. **Vallero, D.** “Practical Ethics: Bridging the Social and Physical Sciences in the Design Professions,” Fall Conference of the American Society of Landscape Architects, North Carolina Chapter, Durham, North Carolina, September 26, 2002.
- PS-160. Vette, A., Landis, M., Williams, R., LaPosta, D., Kantz, M., Filippelli, J., Webb, L., Ellestad, T., and Vallero, D. Concentrations and speciation of PM at Ground Zero and Lower Manhattan following the collapse of the WTC. Environmental Science Seminar, Durham, North Carolina, September 17, 2002.
- PS-161. **Vallero, D.,** Banks, Y., and Leovic, K., “Innovative Approaches to Human Exposure Assessment in Environmental Justice Communities,” National Conference on Environmental Science and Technology, Greensboro, North Carolina, September 9, 2002.
- PS-162. **Vallero, D.** “Exposure Research Opportunities” Ideas in Nature Seminar, Duke University Department of History, September 5, 2002.
- PS-163. **Vallero, D.** “Environmental Justice: A Human Exposure Perspective” NCCU Environmental Science Seminar Series, September 3, 2002.
- PS-164. Vette, A., Landis, M., Swartz, E., Williams, R., LaPosta, D., Kantz, M., Filippelli, J., Webb, Ellestad, T. and Vallero, D. “Concentrations and composition of PM at Ground Zero and Lower Manhattan following the collapse of the WTC”. American Association for Aerosol Research, Charlotte, North Carolina, October 2002.

- PS-165. Swartz, E., Stockburger, L. and Vallero, D. "Polyaromatic hydrocarbons and other semi-volatile organic compounds collected in New York City in response to the events of 9/11." American Association of Aerosol Research, Charlotte, North Carolina, October 2002.
- PS-166. Swartz, E., Stockburger, L. and Vallero, D. "Monitoring Toxic Organic Gases and Particles near the World Trade Center After September 11, 2001." International Society of Exposure Analysis Annual Conference, Vancouver, British Columbia, August 2002.
- PS-167. Vette, A., Landis M., Swartz, E., Williams, R., LaPosta, D., Kantz, M., Fillippelli, J., Webb, L., Ellestad, T. and Vallero, D. "Concentrations and Speciation of PM at Ground Zero and Lower Manhattan Following the Collapse of the World Trade Center." International Society of Exposure Analysis Annual Conference, Vancouver, British Columbia, August 2002.
- PS-168. Vette, A. and Vallero, D. "Environmental Monitoring at Ground Zero and Lower Manhattan Following the Collapse of the WTC," Environmental Studies Seminar, North Carolina Central University, March 18, 2002.
- PS-169. Vallero, D.A. "Ground Zero: Good and Evil in Catholicism and Daily Life," *Young Adults Annual Diocesan Conference*, Cary, North Carolina, February 2002.
- PS-170. Morgan, M. K., Vallero, D. A., Chuang, J. C., Lyu C., Wilson, N. K., and Croghan C. Emerging Approaches for Assessing the Exposure of Children to Endocrine Disruptors. National Ground Water Association, Second International Conference on Pharmaceuticals and Endocrine Disrupting Chemicals in Water, Minneapolis, MN, October 9-11, 2001.
- PS-171. Stout, D.M., Mason, M.A., and Vallero, D.A. "The Spatial and Temporal Distribution of Chlorpyrifos in the U.S. EPA Indoor Air Quality Test House Following Crack and Crevice Type Applications. Society for Occupational and Environmental Health, National Conference, December 2001.
- PS-172. Steen, W.C., Vallero, D.A., Jones-Lepp, T.L., Cooter, Medina-Vera, M., E., Bumgarner, J.E., Morgan, M.K., Thomas, K.W. and Robinette, D. "Endocrine Disruptor Source-to-Dose Exposure Research," *Workshop on Endocrine Disruptors*, Atlanta, Georgia, May 2001.
- PS-173. Vallero, D.A. "Ways of Knowing: Faith and Science," *Young Adults Annual Diocesan Conference*, Cary, North Carolina, February 2001.
- PS-174. Vallero, D.A. "Transformation and Transport of Semi-Volatile Organic Compounds from Soil: Measuring Dicarboximides in a Chamber," *Atmospheric, Surface and Subsurface Hydrology and Interactions*, American Institute of Hydrology 2000 Annual Meeting, Research Triangle Park, North Carolina, November, 2000.
- PS-175. Vallero, D.A. "Exposure Implications: Methods, Measurements and Models," *Region/Office of Research and Development Pesticides Workshops, Chicago, Illinois, October-November, 2000.*
- PS-176. Vallero, D.A. "Transformation and Transport of Semi-Volatile Organic Compounds," *Research in Atmospheric Chemistry and the Environment in the Triangle*, Research Triangle Park, North Carolina, July 2000.
- PS-177. Vallero, D.A. "Ecological Spirituality," *A New Millennium, a New Commitment: Diocese of Raleigh Annual Conference*, Raleigh, North Carolina, March 2000.
- PS-178. Vallero, D.A. "Sound Management of Chemicals in North America: Criteria for Selecting Chemical Compounds of Concern to North America," *International Symposium on Persistent Organic Compounds and Heavy Metals, Research Triangle Park, North Carolina, October 1999.*
- PS-179. Vallero, D.A. "Environmental Monitoring and Assessment in the U.S.," *International Symposium on Persistent Organic Compounds and Heavy Metals*, Research Triangle Park, North Carolina, October 1999.
- PS-180. Vallero, D.A., and Foley, G.J. "North America's sound management of chemicals initiative: application of selection criteria to dioxins/furans, hexachlorobenzene, and hexachlorocyclohexanes." International Persistent Organic Pollutant Workshop, Research Triangle Park, North Carolina, October 1999.
- PS-181. Vallero, D.A. and Peirce, J.J. "Measuring and Modeling the Transport of Endocrine Disrupting Dicarboximides and Degradation Products from the Soil to the Lower Troposphere," *The Seventh Symposium on the Chemistry and Fate of Modern Pesticides*, Lawrence, Kansas, September, 1999.
- PS-182. Sheldon, L., Berry, M. and Vallero, D. "Bioaccumulation of POPs in Fish and Estimation of Human Dietary Exposure and Dose," *Ninth Annual Meeting of the International Society of Exposure Analysis*, Athens, Greece, September 1999.

- PS-183. Vallero, D. Panel Member and Breakout Group Facilitator, "Responsible Conduct of Research Workshop," The Graduate School of Duke University, April 24, 1999 (Arts and Sciences) and May 1, 1999 (Engineering).
- PS-184. Vallero, D.A. Panel Member, "Endocrine Disruptor Exposure," *Endocrine Disruptor Priority Setting Workshop*, January 1999.
- PS-185. Vallero, D.A. "Soil-to-Tropospheric Flux of Dicarboximide Fungicide: Measuring and Modeling Potential Exposure and Risk to Humans" *Duke University - Civil and Environmental Engineering Colloquium*, January 1999.
- PS-186. Vallero, D.A. "Soil-to-Tropospheric Flux of Dicarboximide Fungicide: Measuring and Modeling Potential Exposure and Risk to Humans," *Duke University - Civil and Environmental Engineering Colloquium*, January 1999.
- PS-187. Vallero, D.A., Session Chair, "Semivolatiles," *Measurement of Toxic and Related Pollutants, Air and Waste Management Association, Research Triangle Park, North Carolina, 791-850, 1998.*
- PS-188. Vallero, D.A. Colloquium Chair, "Using Bioavailability in Risk Assessment," *Risk Assessment Forum, Washington, DC, June, 1998.*
- PS-189. Vallero, D.A. Panel Chair, "Endocrine Disruptors: What Are the Most Appropriate Approaches to Estimating Exposure," *Seventh Annual Meeting of the International Society of Exposure Analysis*, Research Triangle Park, North Carolina, November 1997.
- PS-190. Vallero, D.A. "Endocrine Disruptors: Carcinogens of the 1990's?" *Duke University - Mechanics in the Environment Seminar Series*, April 1997.
- PS-191. Vallero, D.A. "Potential Areas of Endocrine Disruptor Exposure Research: From Source to Potential Dose," *47th Annual Kansas Environmental Engineering Conference*, Lawrence, Kansas, February 1997.
- PS-192. Vallero, D.A. "Endocrine Disruptor Research: Transport, Transformation and Fate," **Key Note Address: Society for Risk Analysis and International Society of Exposure Assessment: 1996 Joint Annual Meeting, New Orleans, LA, December 1996.**
- PS-193. Vallero, D.A. "Status of Office of Research and Development's Endocrine Disruptor Research Plan," *Compartmental Modeling and Chemical Classification Workshop*, Research Triangle Park, North Carolina, March 1996.
- PS-194. Vallero, D.A. "Research Needs: Endocrine Disruptor Research," *Endocrine Disruptor Exposure Workshop*, National Exposure Research Laboratory, Research Triangle Park, North Carolina, March 1996.
- PS-195. Vallero, D.A. "Compartmental Models: An Approach for Endocrine Disruptor Exposure Research," *Environmental and Occupational Health Sciences Institute Seminar Series*, Rutgers University, New Jersey, March 1996.
- PS-196. Vallero, D.A. "Endocrine Disruptors Exposure Research: Transport, Transformation and Fate," Duke University, *Topics in Civil and Environmental Engineering*, February 1996.
- PS-197. Vallero, D.A. "Exposure Assessment and Research Needs: Endocrine Disruptor," *North American Free Trade Agreement Technical Meeting*, Mexico City, Mexico, December 1995.
- PS-198. Vallero, D.A. "Endocrine Disruptors Exposure Research: An Overview," National Exposure Research Laboratory Seminar Series, Research Triangle Park, North Carolina, October 1995.
- PS-199. Bond, A.E., Vallero, D.A., and Foley, G.A. "Case Study: The Evolution of Exposure Assessment Approaches for Persistent Organic Pollutants," *International Experts Meeting on Persistent Organic Pollutants: Towards Global Action, United Nations Commission on Sustainable Development*, 1995.
- PS-200. Vallero, D.A. "Exposure Assessment" and "Neurological/Endocrinological Effects," Panel Member, *Endocrine Disruption Workshop*, Raleigh, North Carolina, April 1995.
- PS-201. Vallero, D.A. "A Case Study for External Peer Review: WTI Incinerator," *Peer Review Clinic*, U.S. EPA, Washington, DC, 1995.
- PS-202. Vallero, D.A. "Mass Balance Approach for Mercury Contamination in the Florida Everglades," *South Florida Mercury Deposition Workshop*, Research Triangle Park, North Carolina, January/February 1995.
- PS-203. Vallero, D.A. "Exposure Assessment Methodologies for Humans and Ecosystems," *NATO Advanced Research Workshop, National Research Council of Italy, Erice, Italy, October 1994.*
- PS-204. Vallero, D.A. and Foley, G.A. "Current U.S. Activities in Integrated Monitoring," *International Joint Commission Workshop*, Chicago, Illinois, 1992.

- PS-205. Vallero, D.A. "Integration and Assessment: A Conceptual Plan," *Science Advisory Board Peer Review*, U.S. EPA, Washington, DC, December 1991.
- PS-206. Vallero, D.A. "A Framework for Conducting Assessments in EMAP," *Science Advisory Board Peer Review*, U.S. EPA, Washington, DC, December 1991.
- PS-207. Vallero, D.A. "EMAP Regional Ecosystem Assessment Prototype Project," *Science Advisory Board Peer Review*, U.S. EPA, Washington, DC, December 1991.
- PS-208. Vallero, D.A. "EMAP Integration and Assessment Activities," *EMAP Steering Committee Meeting*, U.S. EPA, Tucson, AZ, April 1991.
- PS-209. Vallero, D.A. "Comparative Risk: Science Underpinning of Regional Decisions," *Atmospheric Research and Exposure Assessment Laboratory Seminars*, Research Triangle Park, North Carolina, April 1990.
- PS-210. Vallero, D.A. Science and Technology Liaison, *National Environmental Information Conference*, Kansas City, Missouri, November 1989.
- PS-211. Vallero, D.A. "Artificial Intelligence and Expert Systems on the Macintosh: Drinking Water Applications," *Second Annual Regional Information Resources Management Conference*, Kansas City, Kansas, September 1988.
- PS-212. **Vallero, D.A. Panel Moderator, "Agricultural Chemicals: A Panel Discussion of the Real and Perceived Risks," *Sigma Xi Seminar Series*, Kansas City, Missouri, April 1988.**

SCIENTIFIC POSTERS (Underlined when presenter; **Bold text indicates invited publication**)

- PS-213. D. Vallero. "Emerging Tools to Estimate and Predict Exposures to Chemicals." Society for Risk Analysis: Risk Governance for Key Enabling Technologies. Venice, Italy. March 1-3, 2017. <http://www.sra.org/sites/default/files/pdf/events/SRA%20Forum%20Program%20-%20Online%20-%20Full.pdf>
- PO-1. K. Isaacs, K. Phillips, D. Biryol, W. Setzer, J. Sobus, P. Egeghy, D. Vallero, K. Dionisio and J. Wambaugh. "New Tools for Predicting the Magnitude and Pathway of Chemical Exposure." Chemical Safety for Sustainability Subcommittee Meeting, Board of Scientific Counselors, Research Triangle Park, North Carolina. November 16-18, 2016.
- PO-2. K. Dionisio, K. Isaacs, K. Phillips, D. Vallero, P. Egeghy and P. Price. "A modular human exposure model (HEM) framework to characterize near-field chemical exposure in LCIA: Life Cycle – Human Exposure Model (LC-HEM) Project." Chemical Safety for Sustainability Subcommittee Meeting, Board of Scientific Counselors, Research Triangle Park, North Carolina. November 16-18, 2016.
- PO-3. S.A. Csiszar, D.E. Meyer, K. Dionisio, P. Egeghy, P.S. Price, K.A. Scanlon, Y-M Tan, K. Thomas, D. Vallero and J.C. Bare. "Conceptual Framework of the Life Cycle – Human Exposure Modeling Project." Chemical Safety for Sustainability Subcommittee Meeting, Board of Scientific Counselors, Research Triangle Park, North Carolina. November 16-18, 2016.
- PO-4. Egeghy, P., M. Rock- Goldsmith, C. Henning, T. Hong, H. Hubbard, and D. Vallero. A Quantitative ADME-base Tool for Exploring Human Exposure to Consumer Product Ingredients. Air & Waste Management Association's 109th Annual Conf. & Exhibition, New Orleans, LA, June 20 - 23, 2016.
- PO-5. K. Thomas, D. Meyer, S. Csiszar, K. Scanlon, J. Bare, D. Vallero, P. Egeghy, P. Price, R. Smith, and W. Ingwersen. "Building Article Case Study for Demonstration and Evaluation of a Life Cycle-Human Exposure Modeling (LC-HEM) Framework." Chemical Safety for Sustainability Connectome 2015, Research Triangle Park, North Carolina. May 18-20, 2015.
- PO-6. H. Hubbard, C. Henning, T. Hong, D. Vallero, and P. Egeghy. "A High-Throughput Exposure Estimation Tool Incorporating ADME Processes" Biomonitoring and Exposure Assessment. 54<sup>th</sup> Annual Meeting of the Society of Toxicology. San Diego, California, March 23, 2015.
- PO-7. D. Vallero, J. Bare and P. Lioy. "Disaster Preparedness and Response: Applied Exposure Science". Exposure Science Integration to Protect Ecological Systems, Human Well-Being, and Occupational Health. 24th Annual Meeting of the International Society of Exposure Science. Cincinnati, Ohio, October 14, 2014. [http://www.ises2014.org/Images/Abstract\\_Book\\_as\\_of\\_10\\_8\\_14.pdf](http://www.ises2014.org/Images/Abstract_Book_as_of_10_8_14.pdf).
- PO-8. D. Vallero, M. Goldsmith and J. Bare. "Life-Cycle Inventory/Impact Assessment in the Context of Chemical Risk Assessment: An Informatics-driven Scoping Review". Exposure Science Integration to Protect Ecological Systems, Human Well-Being, and Occupational Health. 24th Annual Meeting of the International

- Society of Exposure Science. Cincinnati, Ohio, October 14, 2014.  
[http://www.ises2014.org/Images/Abstract\\_Book\\_as\\_of\\_10\\_8\\_14.pdf](http://www.ises2014.org/Images/Abstract_Book_as_of_10_8_14.pdf).
- PO-9. D. Vallero, P. Egeghy, T. Buckley, J. Wambaugh, K. Isaacs, R. Goldsmith, H. Özkaynak and J. Mitchell. "Mapping ExpoCast onto ToxCast". Environment and Health: Bridging South, North, East and West. Conference of ISEE, ISES and ISIAQ 23rd Annual Conference of the International Society of Exposure Science, Basel, Switzerland, August 21, 2013.
- PO-10. J. Wambaugh, D. Vallero, A. Wang, A. Frame, C. Strobe, K. Dionisio, R. Goldsmith, D. Chang, C. Grulke, P. Egeghy, K. Isaacs, A. Liddell, R. Judson, R.W. Setzer and E. Cohen Hubal. "Rapidly Parameterized Consumer Use Modeling for High-Throughput Exposure Predictions". Environment and Health: Bridging South, North, East and West. Conference of ISEE, ISES and ISIAQ 23rd Annual Conference of the International Society of Exposure Science, Basel, Switzerland, August 21, 2013.
- PO-11. H. Özkaynak K. Isaacs J. Xue, R. Goldsmith, P. Egeghy, D. Vallero and J. Wambaugh. "High Throughput Exposure Prioritization of Chemicals Using a Screening-Level Probabilistic SHEDS-Lite Exposure Model". Environment and Health: Bridging South, North, East and West. Conference of ISEE, ISES and ISIAQ 23rd Annual Conference of the International Society of Exposure Science, Basel, Switzerland, August 21, 2013.
- PO-12. Mitchell-Blackwood, J., Vallero, D. and Egeghy, P. "Challenging exposure prioritization approaches." W2-B Poster Platform: The Development of High Throughput Exposure Techniques for Prioritizing Chemical Risks. Society for Risk Analysis Annual Meeting, December 7, 2011.
- PO-13. Vallero, D. and Egeghy, P. Introduction to chemical safety for sustainability: exposure-based prioritization." W2-B Poster Platform: The Development of High Throughput Exposure Techniques for Prioritizing Chemical Risks. Society for Risk Analysis Annual Meeting, December 7, 2011.
- PO-14. Kimbrough, S., Shores, R., Whitaker, D., Mitchell, B., Baldauf, R., Vette, A., Vallero, D., Croghan, C., Hagler, G., Hirtz, J., Martinez, V. and Black, K. "EPA/FHWA near-road study – Las Vegas implementation and experience." American Association for Aerosol Research Specialty Conference. Pollutant and Population Exposure: Sources. San Diego, California. March 22-26, 2010.
- PO-15. S Kimbrough, S., Shores, R., Whitaker, D., Mitchell, B., Baldauf, R., Vette, A., Vallero, D., Croghan, C., Hagler, G., Hirtz, J., Martinez, V. and Black, K. "EPA/FHWA near-road study – Characterization and variability of pollutant concentrations." American Association for Aerosol Research Specialty Conference. Pollutant and Population Exposure: Sources. San Diego, California. March 22-26, 2010.
- PO-16. Richmond-Bryant, J, Isukapalli, S. and Vallero, D. "Characterization of spatiotemporal patterns in air pollutant concentrations within complex urban environments." American Association for Aerosol Research Specialty Conference. Pollutant and Population Exposure: Atmospheric Sciences. March 22-26, 2010.
- PO-17. Isaacs, K., McCurdy, T., Erickson, A., Forbes, S., Glen, G., Graham, S., McCurdy, L., Nysewander, M., Smith, L., Tulve, N., and Vallero, D. "Statistical properties of longitudinal time-activity data for use in EPA exposure models." American Time Use Research Conference; College Park Maryland, June 26, 2009.
- PO-18. Laursen, T, Vallero, D., James, D., Maguire, L., Pickus, N., Reichert, M. and Peterfreund, A. "Bridging Macro and Micro Ethics: Advancing Ethics Education for Nano-Scale Researchers," *Principal Investigator Meeting*, National Science Foundation, Washington, DC, January 8, 2009.
- PO-19. Gronewold, A., Reckhow, K., and Vallero, D. "Improving Human and Ecological Exposure Assessments: A Bayesian Network Modeling Approach," International Society for Environmental Epidemiology & International Society of Exposure Analysis, 2008 Joint Annual Conference: Exposure and Health in a Global Environment, Pasadena, California, October 13, 2008.
- PO-20. Vallero, D., Kominsky, J., Beard, M. and Crankshaw, O. "Airborne Asbestos Measurement," EPA Science Forum, U.S. Environmental Protection Agency, Washington, DC, May 20 -22, 2008.
- PO-21. Isukapalli, S., Liroy, P.J. and Vallero, D.A. "Prospective Personal Exposure Study and Implications for Homeland Security Preparedness and Response," 17th Annual Conference of the International Society of Exposure Analysis, Durham, North Carolina, October 15 and 16, 2007.
- PO-22. Isaacs, K., Erickson, A., Forbes, S, Glen, G., McCurdy, L., McCurdy, T., Smith, L, Tulve, N. and Vallero, D. "Statistical Properties of Longitudinal Time-Activity Data for Use in Human Exposure Models," 17th Annual Conference of the International Society of Exposure Analysis, Durham, North Carolina, October 15 and 16, 2007.

- PO-23. Shaul, G., Vallero, D., Schumacher, B. and Cook, P. "Reducing Uncertainties in Asbestos Exposure Scenarios, Board of Scientific Counselors Review, Updating Safe Pesticides/Safe Products," Washington, DC, January 9, 2007.
- PO-24. Laursen, T., Vallero, D., James, D., Kiss, E., Lenoir, T., Maguire, L., Clark, R., Reichert, M. and Peterfreund, A., "Bridging Macro and Micro Ethics: Advancing Ethics Education for Nano-Scale Researchers," *Principal Investigator Meeting*, National Science Foundation, Washington, DC, January 8 and 9, 2007.
- PO-25. Leovic K., Vallero, D. and Banks, Y. "Developing Tools to Assess Exposure in Minority and Low Income Communities," *Science Forum, Poster Session*, U.S. Environmental Protection Agency, Washington, DC, May 2003.
- PO-26. Vette, A., Zweidinger, R., Seila, R., Swartz, E., Huber, A., Williams, R., LaPosta, D., Kantz, M., Filippelli, J., Fradkin, K., Webb, L., Grant, L., Ellestad, T. and D. Vallero, "Ambient Air Monitoring at Ground Zero and Lower Manhattan following the Collapse of the World Trade Center," *Science Forum, Poster Session*, U.S. Environmental Protection Agency, Washington, DC, May 2003.
- PO-27. Banks, Y., Vallero, D. and Leovic K. "Update: Environmental Risk and Impact in Communities of Color and Economically Disadvantaged Communities," *2003 U.S. Environmental Protection Agency Earth Day Celebration Poster Session*, Research Triangle Park, North Carolina, April 2003.
- PO-28. Stout, D., II, Mason, M., and Vallero, D. "Pesticide Exposure and Health in Test House Following Crack and Crevice Type Applications." Poster Session: Spatial and Temporal Distribution of Chlorpyrifos in the U.S. EPA Indoor Air Quality (IAQ), Society for Occupational and Environmental Health, SOEH 2002 Conference, Bethesda, Maryland, July 9, 2002.
- PO-29. Banks, Y., Vallero, D. and Leovic K. "Environmental Risk and Impact in Communities of Color and Economically Disadvantaged Communities," *Dedication of New U.S. Environmental Protection Agency*, Research Triangle Park, North Carolina, May 2002.
- PO-30. Vette, A., Zweidinger R., Seila, R., Huber, A., Williams, R., LaPosta, D., Kantz, M., Fillippelli, J., Franklin, K., Webb, L., Grant, L., Ellestad, T. and Vallero, D. "Ambient Air Monitoring at Ground Zero and Lower Manhattan Following the Collapse of the World Trade Center," *Dedication of New U.S. Environmental Protection Agency Complex*, Research Triangle Park, North Carolina, May 2002. Also presented at the National EPA Science Forum, Washington, DC, May 2002.
- PO-31. Vallero, D.A. Stockburger, L., Farnsworth, J. and Peirce, J.J. "Transport and transformation of a semi-volatile fungicide from soil to the atmosphere: Chamber design and fabrication," *Region/Office of Research and Development Poster Session*, U.S. Environmental Protection Agency, Chicago, Illinois, October 31, November 1 and 2, 2000. Also presented at the National Exposure Research Laboratory, Human Exposure Analysis Branch Open House, November 2000.
- PO-32. Vallero, D.A. "Transport and transformation of a semi-volatile fungicide from soil to the atmosphere: Dicarboximide results," *Region/Office of Research and Development Poster Session*, U.S. Environmental Protection Agency, Chicago, Illinois, October 31, November 1 and 2, 2000. Also presented at the National Exposure Research Laboratory, Human Exposure Analysis Branch Open House, November 2000.
- PO-33. Vallero, D.A. Stockburger, L., Farnsworth, J. and Peirce, J.J. "Extraction and analysis of endocrine disrupting dicarboximides and degradation products on particle matter, porous media, and trap," *Engineering Dean's Council Poster Session*, Duke University, October 29 and December 3, 1999.
- PO-34. Vallero, D.A. Stockburger, L., Farnsworth, J. and Peirce, J.J. "Measuring the transport of endocrine disrupting dicarboximides and degradation products from the soil to the lower troposphere," *Engineering Dean's Council Poster Session*, Duke University, October 29, 1999.
- PO-35. Vallero, D.A. Stockburger, L., Farnsworth, J. and Peirce, J.J. "Design of a Laboratory Chamber to Measure the Flux of Semi-Volatile Organic Compounds from Porous Media," *International Symposium on Persistent Organic Compounds and Heavy Metals*, Research Triangle Park, North Carolina, October 1999. Also presented at the National Exposure Research Laboratory, Human Exposure Analysis Branch Open House, October 1999.
- PO-36. **Vallero, D.A. "Sound Management of Chemicals in North America: Criteria for Selecting Compounds," *International Symposium on Persistent Organic Compounds and Heavy Metals*, Research Triangle Park, North Carolina, October 1999. Also presented at the National Exposure Research Laboratory, Human Exposure Branch Open House, October 1999.**

## CONTRIBUTING AUTHOR TO FEDERAL PUBLICATIONS

1. U.S. Environmental Protection Agency, Exposure SAP White Paper: New High-throughput Methods to Estimate Chemical Exposure. Science Advisory Panel Meeting. EPA-HQ-OPP-2014-0331. 2014.
2. U.S. Environmental Protection Agency, Assessment Framework, Environmental Monitoring and Assessment Program, EPA/620/R-94/016, 1994.
3. U.S. Environmental Protection Agency, Program Guide, Environmental Monitoring and Assessment Program, EPA/620/R-93/012, 1993.
4. U.S. Environmental Protection Agency, A Review of Ecological Assessment Case Studies from a Risk Assessment Perspective, EPA/630/R-92/005, 1993 (Case Study Work Group Leader).
5. U.S. Environmental Protection Agency, Master Glossary, Environmental Monitoring and Assessment Program, EPA/620/R-93/013, 1993.
6. U.S. Environmental Protection Agency, Earth Week Curriculum, Region VII, 1990.
7. U.S. Environmental Protection Agency, Regional Accomplishment Report, Region VII, 1987.
8. U.S. Environmental Protection Agency, Missouri Information Project: Accomplishments, Region VII, 1986.
9. U.S. Environmental Protection Agency, State Agency Summaries, Region VII, 1983.
10. U.S. Environmental Protection Agency, Environmental Profiles, 1980. Principal author of Iowa and Kansas Profiles. Contributing author of Missouri and Nebraska Profiles.

## SERVICE TO RESEARCH COMMUNITY

Editorial Board Member, Editor for Air Pollution and Treatment, *Process Safety and Environmental Protection*, 2014-present.

Board of Directors, Councilor, International Society of Exposure Science, 2014-present

Editorial Board Member, *Ethics in Biology, Engineering and Medicine*, 2010-present

Consulting Editor (Environmental Engineering) to the *McGraw-Hill Yearbook of Science and Technology* and the *Encyclopedia of Science and Technology*, 2006-present.

Guest Editor, Special Issues of *Sustainability*, *Process Safety and Environmental Protection*, and *Ethics in Biology, Engineering and Medicine*.

Member, Science Advisory Board, State of Minnesota, Natural Resources Research Institute, 2007 – present.

Member, Advisory Committee, Land Grant University Research Ethics (North Carolina State University Lead), 2007-present.

Member, Institutional Review Board, Duke University Medical Center, 2012-present.

Academic Consultant, Science, Technology, and Society. Saylor Academy. 2013-present.

Mentor, Post-Doctoral Fellow, Jade Mitchell-Blackwood, U.S. EPA. 2010-2013.

Advisor, National Academy of Engineering, Online Ethics, 2008-2013.

## REVIEWER

Journal Referee: *Process Safety and Environmental Protection*, 2014-present.

Journal Referee: *Regulatory Toxicology and Pharmacology*, 2013-present.

Journal Referee: *Annals of Occupational Hygiene*, 2009-present.

Journal Referee: *Ethics of Biology, Engineering and Medicine*, 2009-present.

Journal Referee: *Archives of Environmental and Occupational Health*, 2007-present.

Journal Referee: *Environmental Science & Technology*, 2005-present.

Journal Referee: *Journal of Air and Waste Management*, 2005-present.

Journal Referee: *Environmental Engineering Science*, 2004-present.

Journal Referee: *Journal of Environmental Engineering*, 2001-present.



Member of committee to develop an NSF-sponsored (Georgia Tech) online training program for students and faculty in the responsible conduct of research in engineering; author of the Environmental and Social Dimensions of Engineering Research module, 2007-present.

Reviewer: National Academy of Engineering's Online Ethics Center Cases.

Reviewer, *E-Streams*, Environmental Engineering and Risk Assessment texts, 2005 to present.

Abstract Reviewer, International Society for Environmental Epidemiology & International Society of Exposure Analysis, 2008 Joint Annual Conference: Exposure and Health in a Global Environment, Pasadena, California, October 12–16, 2008.

Journal Referee: *Journal of Environmental Quality*, 2000.

Journal Referee: *Journal of Agricultural and Food Chemistry*, 2000-2001.

Journal Referee: *Atmospheric Environment*, 1998-1999.

Book Reviewer: Association of Environmental Engineering Professors, 1997.

Journal Referee: *The World Resource Review*, 1993.

## FINANCIAL SUPPORT TO RESEARCH

### Major Federal Grants and Contracts:

- 2015 - Present Work Assignment Contract Officer Representative and Principal Investigator. "Life Cycle-Human Exposure Model". Human Health Risk Assessment. Contract # EP-C-14-001 Total budget: \$562,000.
- 2014 - Present Work Assignment Contract Officer Representative and Principal Investigator. "Naturally Occurring Asbestos Measurement Study". Regional Methods Study, Region 10, US EPA. Total budget: \$90,000.
- 2014 - Present Work Assignment Contract Officer Representative and Principal Investigator. "Chemical Prioritization – Dose Ranking". Chemical Safety for Sustainability, US EPA. Total budget: \$50,000 (including in-kind).
- 2013 - Present Project Officer and Principal Investigator. Department of the Army. "Decision Support Tools for Exposure-Based Prioritization" Interagency Agreement. Total budget: \$30,000.
- 2010 – 2012 Project Officer and Principal Investigator. Department of the Army. "Multicriteria Decision Analysis and Exposure-Based Prioritization" Interagency Agreement No. DW96958076. Total budget: \$63,175.
- 2010 – 2012 Project Officer and Principal Investigator. Professional Service Contracts. "Exposure-Based Chemical Prioritization Workshops and Reports" Total budget: \$150,000
- 2010 – Present Project Officer and Principal Investigator. Department of Transportation. Federal Highway Administration. "Near Road Ambient Air Concentration Monitoring for Studying Concentrations of Mobile Source Air Toxics in Detroit, MI." Interagency Agreement No. RW6992328501. Total budget: \$800,000.
- 2009 – Present Principal Investigator and Project Officer. National Academy of Sciences. Study on Human and Environmental Exposure Science in the 21st Century. Contract No. EP-C09-003 - Task Order 8. Total budget: \$960,000
- 2009 – Present Principal Investigator and Project Officer. National Institute of Environmental Health Sciences. Study on Human and Environmental Exposure Science in the 21st Century. Interagency Agreement. Interagency Agreement No. RW-75-92303101. Total budget: \$150,000.
- 2005 – 2010 Principal Investigator and Project Officer. Robert Woods Johnson Medical School. Environmental and Occupational Health Sciences Institute, University Partnership Agreement. Grant No. CR-83162501. Total budget: \$3,000,000.
- 2005 – 2010 Principal Investigator and Project Officer. Lawrence Berkeley National Laboratory. Interagency Agreement. University Partnership Agreement. IAG No. DW-89-9305 8201. Total budget: \$2,000,000.
- 2006 – 2010 Project Officer and Key Scientist. Department of Transportation. Federal Highway Administration. "Near Road Ambient Air Concentration Monitoring for Studying Concentrations of Mobile Source Air Toxics in Las Vegas, Nevada." IA No. RW92249901. Total Budget: \$3,000,000.

- 2007 – Present Science Lead and Principal Investigator. National Exposure Research Laboratory, Nanotechnology Team. Total Project Budget: \$220,000.
- 2005 – 2006 Principal Investigator and Work Assignment Contracting Officer Representative. Battelle Memorial Institute. “Field Support and Analysis of Perfluoride Tracer Samples from New York City Field Study – August 2005.” Contract No. EP-D-04-068.
- 2005 Principal Investigator and Work Assignment Contracting Officer Representative. Battelle Memorial Institute. “Field Support and Analysis of Perfluoride Tracer Samples from Madison Square Garden.” Contract No. EP-D-04-068. Total Project Budget: \$103,733.
- 2004 – 2006 Principal Investigator and Task Order Contracting Officer Representative. Environmental Quality Management, Inc. “Mixed Cellulose Ester Filter Comparison for Asbestos Fiber Collection Efficiency.” Total budget: \$220,000.
- 1991 – 1992 Principal Investigator and Project Officer. Pacific Northwest National Laboratory. Interagency Agreement. Environmental Monitoring and Assessment Program. Grant No. D5-0713. In kind support.

## RESEARCH SKILLS

- Environmental biotechnology
- Life cycle analysis (products and systems)
- Chemical screening and prioritization
- Exposure and risk assessment
- Atmospheric and environmental modeling
- Air pollution monitoring
- Emergency and disaster response
- Informed consent and institutional review board research procedures
- Biomedical and biosystem decision theory
- Fiber and aerosol measurement
- Fate and transport assessment of nanomaterials
- Soil-air exchange chamber engineering, design and operation
- Environmental chemistry
- Environmental sampling and field methods
- Chemical separation by gas and high performance liquid chromatography
- Analysis by ultraviolet absorption/diode array detection, flame ionization, electron capture, and mass spectroscopy
- Scanning and transmission electron microscopy
- Chemical sample preparation by solvent extraction and supercritical fluid extraction
- Collection of semi-volatile organic air pollutants by polyurethane foam trapping
- Laboratory chamber design
- Modeling of pollutant transport and transformation
- Statistics and data analysis
- R*, *JMP* and *Mathematica* programming
- Physical and chemical characterization of endocrine disrupting chemicals and air toxics
- EPA field safety certification
- EPA laboratory safety certification
- Respirator user certification, fulfilling requirements of 29CFR1910.134
- Principal Investigator – Research Costing Compliance, Duke University (2007)

## HONORS AND AWARDS

- Scientific and Technological Achievement Award, 2015, Level II, “ExpoCast High Throughput Framework for Rapid Prioritization of Human Exposure to Environmental Chemicals,” Co-recipients: R.W. Setzer, J.F. Wambaugh, E. Cohen Hubal, D.M. Reif, J. Mitchell-Blackwood, S. Gangwal, A. Frame, J. R. Rabinowitz, T.B. Knudsen, R.S. Judson, P.P. Egeghy, J. Arnot, and O. Jolliet.

- Top Ten Abstract. "A High-Throughput Exposure Estimation Tool Incorporating ADME Processes." Society of Toxicology. Risk Assessment Specialty Section, 2015.
- Nominee, World Technology Award for Ethics, The World Technology Network, <http://www.wtn.net/summit-2014/world-technology-award-nominees>, 2014.
- Selection to Editorial Board of the Journal, *Process Safety and Environmental Protection*, 2014
- National Exposure Research Award, 2014, Exposure Science Excellence Award, Systems Reality Research Team
- Pathfinder Innovation Project Award, 2013, Systems Reality Modeling: Chemical Inventor. Team: Rocky Goldsmith, Daniel Chang, Curtis Dary, Peter Egeghy, Chris Grulke, Jade Mitchell-Blackwood, Cecilia Tan, Rogelio Tornero-Velez, Linda Phillips, and Daniel Vallero.
- Office of Research and Development Teamwork Award, 2012, Federal Highway Administration Near-Road Study.
- Scientific and Technological Achievement Award, 2010, Honorable Mention; Advancing Methods to Sample and Analyze Airborne Asbestos Fibers on Filter Media to Support Exposure Assessments; Co-recipients: J.R. Kominsky, M.E. Beard and O.S. Crankshaw
- Elected Member, International Federation of Medical and Biological Engineering, 2011
- Elected Member, National Institute of Engineering Ethics, 2010
- Selection to Editorial Board of the Journal, *Ethics in Biology, Engineering and Medicine*, 2010
- Award for Exceptional/Outstanding ORD Technical Assistance to the Regions or Program Offices, U.S. EPA, 2010
- Selection as Advisor to National Academy of Engineering, 2008
- Best Paper, 2006 (with P.A. Vesilind), American Society of Civil Engineers. Preventing disputes with fairness and empathy. *Journal of Professional Issues in Engineering Education and Practice*. 132 (3). 272-278
- Bronze Medals for Commendable Service, U.S. EPA, 1990, 1998 and 2005
- Recognition Award, Mechanistic Indicators of Childhood Asthma, Modeling Support, 2007
- Duke University Representative, National Academy of Engineering, Workshop on Emerging Technologies and Ethical Issues, October 2003
- Special Faculty Commendation, North Carolina Central University, 2003
- National Commendation, Excellence in Response, World Trade Center, U.S. EPA, 2002
- Best Qualified, Senior Executive Service Candidate Program, U.S. EPA, 2002
- Superior Accomplishment Award, 2001
- Award for Exceptional/Outstanding ORD Technical Assistance to the Regions or Program Offices, U.S. EPA, 2001
- Fourth Degree, Knights of Columbus, Dubbed in November 2000
- Jeffrey Taub Award, Duke University, Department of Civil and Environmental Engineering, 1999
- Executive Board, Sigma Xi, University of North Carolina-Chapel Hill Chapter, 1999-2000
- Special Act Awards, U.S. EPA, 1980, 1990, 1993, 1997, 1998, 2000
- Performance Awards, 1994, 1995, 1997, 1998
- President, Sigma Xi, Kansas City Chapter, 1987; Vice President 1986
- Continued Superior Performance Awards, 1984-1989, 1996
- American Institute of Certified Planners, Certification Granted 1981
- Missouri Planner-in-Charge, 1978 and 1983
- Graduate Fellowship, Southern Illinois University, 1975-1976
- Graduated "With Honors," Southern Illinois University, 1974
- Illinois State Scholarship, 1971-1974

## MEMBERSHIPS AND SERVICE

### Current:

- Full Member, American Society of Civil Engineers
- Member, American Society of Engineering Education
- Member, International Society of Exposure Science
- Affiliate, Association of Environmental Engineering and Science Professors
- Member, Science Advisory Board, Taconite Particulate Working Group, Lung Health Partnership, Minnesota Taconite Workers, University of Minnesota
- Faculty Member, Markets and Management Program, Duke University

-Faculty Member, Global Health Program, Duke University  
-Advisor and Convener, Teaching GeoEthics Across the Geoscience Curriculum: Workshop 2014, Pray, Montana, June 10-13, 2014.

-Trustee, Deepwater Horizon EPA Response Team

Past:

-Member, National Institute of Engineering Ethics, Executive Board, 2010-2014  
-Member, Online Ethics Committee, National Academy of Engineering, 2007-2012  
-Judge, Ethics Bowl Competition, National Undergraduate Bioethics Conference  
-Faculty Advisor, Engineers Without Borders, Duke Chapter, 2003-2009  
-Mentor, Preparing Future Faculty, Council of Graduate Schools (Amani McHugh, 2007-2008; Kyle van Houtan, 2004-2005)

Faculty Member, First-year Opportunity for Comprehensive, Unified Study (Focus), Duke University

-Faculty Lead, Ethics across the Curriculum, Pratt School of Engineering, Duke University  
-Member, Advisory Committee, National Science Foundation's Collaborative Large-Scale Engineering Analysis Network for Environmental Research, Duke University and University of Illinois  
-Member, Scientific Laboratory Utilization Assessment Committee, NCCU  
-Reviewer, Grants-in-Aid Research, Sigma Xi, the Scientific Research Society, UNC Chapter  
-Member, Executive Committee, Sigma Xi, the Scientific Research Society, UNC Chapter  
-Advisor, Duke University Graduate School, Committee on Responsible Conduct of Research  
-Chair, Duke University, Science, Technology and Human Values Advisory Group  
-Faculty Consultant, Duke University, Information Science and Information Studies Program  
-Judge, North Carolina State University, Environmental Engineering Student Poster Symposium  
-Member, Duke University Task Force on Information Science and Information Studies  
-Chair, Graduate Science Education Committee, NCCU, 2003.  
-Member, Assistant Chancellor for Research, Search Committee, NCCU, 2003  
-Member, Sigma Xi, the Scientific Research Society (Elected to Full Membership in 1985)  
-Member, Air and Waste Management Association (inactive)  
-Member, Society for Risk Analysis (inactive)  
-Member, EPA Risk Assessment Forum, 1992-2002 (Reappointed in 1995 and 1998)  
-Member, Neuse River Exposure Methods Team, 1998  
-Contributor, Editorial Board, National Exposure Research Laboratory Newsletter, 1995-1997  
-Member, Property Board of Survey, U.S. EPA, 1995-1998  
-Member, Informational Work Group for Mercury, 1992-1993  
-Member, Clean Air Act Biennial Assessment Committee, 1992-1993  
-Member and Course Instructor, EPA Institute, 1990  
-Chair, Region VII Macintosh Users' Group, 1987-1990  
-Former Member, American Institute of Certified Planners (full certification)