

CURRICULUM VITAE

Ilias G. Kavouras, PhD
School of Public Health
University of Memphis

EDUCATION

1998	Ph.D., Chemistry, Department of Chemistry, University of Crete, Greece
1994	B.Sc., Chemistry, Department of Chemistry, University of Crete, Greece

EMPLOYMENT and POSITIONS HELD

Administrative and Institutional Governance appointments

2024-	Assistant Dean of Academic Affairs, School of Public Health, University of Memphis
2022-2024	Chair, Department of Environmental, Occupational and Geospatial Health Sciences, City University of New York
2023-2024	Interim Chair, Department of Epidemiology and Biostatistics, City University of New York
2019-2022	Chair, SPH Governance Council Assessment Committee, City University of New York
2018-2019	Doctoral Program Director, Department of Environmental, Occupational and Geospatial Health Sciences, City University of New York
2016-2018	Graduate Program Director, Department of Environmental Health Sciences, University of Alabama at Birmingham

Professional appointments

2024-	Professor (with tenure), Epidemiology Biostatistics and Environmental Health Division, School of Public Health, University of Memphis
2018-2024	Professor (with tenure), Department of Environmental, Occupational and Geospatial Health Sciences, City University of New York
2018-2024	Affiliated Faculty, Environmental Sciences Initiative, Advanced Science Research Center, City University of New York
2018-2024	Adjunct Professor, Department of Environmental Health Sciences, University of Alabama at Birmingham
2015-2018	Associate Professor (with tenure), Department of Environmental Health Sciences, University of Alabama at Birmingham
2011-2015	Associate Professor, Department of Environmental and Occupational Health, University of Arkansas for Medical Sciences
2010-2011	Environmental Health Program Director, French Longitudinal Study of Children, National Institute for Demographic Studies (INED)
2005-2010	Assistant Research Professor, Division of Atmospheric Sciences, Desert Research Institute
2002-2005	Research Assistant Professor, Institute for Environmental Research and Sustainable Development, National Observatory of Athens, Greece

1998-2002 Research Fellow, Department of Environmental Health, Harvard School Public Health

HONORS, AWARDS, and INTELLECTUAL PROPERTY

CUNY SPH 2021 Faculty Mentoring Award
Delta Omega Honorary Society in Public Health, inducted in 2021.
Impaction Substrate and Methods of Use, US Letters Patent 6,435,043
High Volume Particle Sampler, HU License No.1589-98
Personal Multi-pollutant Sampler, HU License No. 1795-00
Sampling system for particle and gas phase organics, HU License No.1796-00
Low volume inlets, HU License No.1797-00
Young Scientist Travel Award, International Global Atmospheric Chemistry, 1999
Keith Runcorn Fellowship, European Geophysical Union, 1998

PROFESSIONAL ACTIVITIES

Grant reviewer

NIH/NIEHS, U24 Research Coordinating Center to Support Climate Change and Health Community of Practice, P20 Exploratory Grants for Climate Change and Health Research Center Development
NIH Career Awards K99/R00, K01 and K23 grant applications.
NIEHS, Time-Sensitive Research Study Section, Co-chair.
CUNY Junior Faculty Research Award in Science and Engineering, panel member
CUGH Global Health Workforce Panel, 2021-, panel member
NIEHS, Systemic Injury of Environmental Exposure Study Section, member
CUNY Office of Research Interdisciplinary Research Grant, panel member
PSC-CUNY pilot grant, panel member
National Science Foundation (NSF), panel member
European Research Council (ERC), panel member
National Oceanic and Atmospheric Administration (NOAA) Climate Change Program, panel member
Jackson State University RCMI-Center for Environmental Health (RCMI-CEH) Pilot Project Program, panel member
French Public Safety, Nutrition, Environment and Occupational Safety Agency (ANSES), panel member

Invited professional activities.

NYC Pandemic Response Institute, Impossible Heatwaves: Should Everyone Have the Right to Remain Cool During a Global Climate Crisis? Panel moderator, 2023
Coro New York Leadership Center, City's Just Energy Transition, Panel member, 2022
Climate Inclusive Clinical Research: Interprofessional Engagement and Training Around Climate and Health Equity, SUNY Downstate Medical Center, 2022, panel member
CUNY Think Tank: A two-day symposium on the impact of climate crisis on the ecosystem and human health, 2011, panel member

Editorial boards and adhoc journal reviewer

Frontiers in Environmental Science, Associate Editor, Climate and Atmosphere, 2023-2024
Atmosphere, MDPI, 2020-, Editorial Board member
Environmental Research, Elsevier (2017-2018), editorial board member

Heliyon, Elsevier (2015-2019), editorial board member
 Environmental Toxicology and Chemistry (2012-2015), editorial board member
 Environmental Health Perspectives, Environmental Toxicology and Chemistry, Environmental Science and Technology, Atmospheric Environment, Atmospheric Research, Catena, Environmental Science and Pollution Research, Chemosphere, Journal of Environmental and Public Health, Journal of Exposure Sciences and Environmental Epidemiology, Environmental Monitoring and Assessment, Stochastic Environmental Research and Risk Analysis, BMC Pediatrics, Atmospheric Chemistry and Physics, Science of the Total Environment, Fuel, Environmental Technology, Journal of Environmental Health, International Journal of Air Quality, Atmosphere and Health, reviewer

Policy and program evaluation

Aliso County Scientific Oversight Committee, committee member
 Materials Sciences and Advanced Technologies, Department of Materials Sciences, University of Crete, Greece, training program evaluator
 United States National Academies of Sciences, Engineering, and Medicine report: “Future of Atmospheric Chemistry Research: Remembering Yesterday, Understanding Today, Anticipating Tomorrow, from our Board on Atmospheric Sciences and Climate”, reviewer
 United States National Academies of Sciences, Engineering, and Medicine_report: “Controlled Human Inhalation-Exposure Studies at EPA”, reviewer
 Lake Tahoe Air Quality Monitoring Plan, science policy reviewer

PROFESSIONAL DEVELOPMENT

2023	CUNY Professional Development Workshop for Department Chairs
2020	CUNY Assessment Council. Assessment 101
2020	General Overview - Policy on Sexual Misconduct Training CUNY-Wide Sexual Misconduct Panel FSDC Chairperson Training CIS Zoom Training for Title IX Remote Hearing
2020	The Ethics of Public Health Emergency Response to COVID-19 to Public Health Disaster Preparation and Planning for Tomorrow. Society for Disaster Medicine and Public Health
2020	Open Pedagogy at CUNY: A Cross-Institutional Conversation
2020	WGU-CUNY Professional Development: Effective Practices, Pedagogical Design, High Impact Discussion Strategies, Guiding Student Research.
2019	Student Conduct Institute Basic Compliance Training, State University of New York
2019	Managerial Competencies Certificate, CUNY Professional Development and Learning Management Office
2019	Supervisory Competencies Certificate, CUNY Professional Development and Learning Management Office
2016-2018	American Council on Education Leadership Academy for Department Chairs
2015	3D Online Instruction: Design, Develop and Deliver, UAB e-Learning and Professional Studies

2013	Applied Logistic Regression and Survival Analysis. Central Arkansas Statistical Association Research Assistant Professor, Institute for Environmental Research and Sustainable Development, National Observatory of Athens, Greece
2013	Pediatric Forum for Primary Care and Specialty Physicians, Arkansas Children Hospital
2011-2015	Teaching Certificate, University of Alabama at Birmingham
2010-2011	Mentoring Certificate, University of Alabama at Birmingham

SPONSORED RESEARCH

Mt.Sinai School of Medicine-CUNY Research Foundation: “Use of the Realtime and Historical “Floodnet” Data to Determine the Impact of Flooding on the Surge of Acute Respiratory Illnesses in the Specific Densely Populated Flood Prone New York City Communities in 1 Year” Role: Co-PI Budget: \$41,000.	2023-2024
US Environmental Protection Agency: “Innovative approach to assess the effect of metal mixtures from infant meconium associated with adverse health outcomes by identifying methylation loci in mothers and infants” Role: Co-Investigator. (12.5%)	2022-2025
New York City Mayor’s Office: “Pandemic Research Institute: Workforce development” Role: Co-Leader. (5%)	2022-
Harvard University: “Chemical characterization of the hydrophilic fraction of wood burning aerosol emissions.” Role: Principal Investigator, Budget: \$22,500	2021-
NIOSH 1R21OH011740-01A1: “A feasibility study to develop a multilevel occupational health intervention program for nail salon employees and owners.” Role: Collaborator	2021-2023
PSC-CUNY Award # 63531-00 51: “Vaping epidemic: electronic cigarettes and cannabis products, a ticking public health bomb.” Role: Principal Investigator, Budget: \$6,000	2020-2021
CUNY Interdisciplinary Climate Crisis: “The effect of climate-driven extreme heat weather on cardiovascular and pulmonary health of susceptible individuals in NYC”. Role: Co-Investigator	2020-2021
CUNY Interdisciplinary Climate Crisis: “Climate Change Impacts on Air Quality and Health in Urban Environments”. Role: Co-Investigator	2020-2021
NCI, R25CA112383 Cancer Epidemiology Education in Special Populations Program: “Carcinogens in electronic cigarettes vapors”. Recipient: Karina Castillo; Role: Mentor	2019
CDC/NIOSH, T42OH008436: “Deep South Center for Occupational Health and Safety Education and Research Center”. Role: Co-Investigator	2015-2017
CDC/NIOSH, T42OH008673: “Exhaled breath condensate: understanding exposures of firefighters to smoke” Role: Principal Investigator. Budget: \$ 8,500	2015-2016
Texas Commission of Environmental Quality: “Ozone Pollution: Understanding the local and regional contributors to ozone pollution in El Paso Texas.” Role: Subcontract Principal Investigator. Budget: \$ 30,001	2015-2016

US Environmental Protection Agency, NE-00F65601-0: "Pest Management Practices and Chemical Use Reduction in Homes: Partnering with Arkansas STEM Centers in the Use of Liberating Structures for Environmental Education." Role: Co-Principal Investigator	2013-2015
New Mexico Environment Department: "Receptor-based dust source analysis for windblown dust emission inventory at the international border region of southern New Mexico." Role: Subcontract Principal Investigator. Budget: \$ 20,000	2013-2014
US Environmental Protection Agency, XA-00F59601-0: "HIPPY for Healthy Homes Program: Curriculum Development and Capacity Building for Managing Indoor Air Quality in Homes." Role: Co-Principal Investigator	2012-2014
NIH/NCRR UL1TR000039 (TRI): "Projected impacts of climate change on respiratory and cardiovascular health in Arkansas." Role: Principal Investigator. Budget: \$ 27,004	2013-2014
New Mexico Office of Border Health: "Assessment of Land-based Sources of Air Quality Contaminants in the Binational Border Region of Southwestern New Mexico and Northwestern Chihuahua." Role: Subcontract Principal Investigator. Budget: \$ 91,000	2011-2013
Clark County Department of Air Quality and Environmental Management: "Impact of Wildfire Emissions on Clark County Air Quality." Role: Co-Investigator	2008
State of Idaho: "PM2.5 Precursors Study-Treasure Valley, Idaho." Role: Principal Investigator. Budget: \$ 77,000	2008-2009
State of Idaho: "Treasure Valley Ozone Precursor Monitoring Study." Role: Principal Investigator. Budget: \$ 80,000	2007-2008
US Department of Energy AC52006NA26383: Fire and Soil Radionuclide Contaminant Transport Study. Role: Co-Investigator.	2007-2012
US Environmental Protection Agency XA-9663709-1: "Community-Scale Air Toxics monitoring and risk assessment project for the City of Albuquerque." Role: Principal Investigator. Budget: \$ 236,442	2007-2009
US Environmental Protection Agency: "Unpaved roads particulate emissions in Paso del North region." Role: Principal Investigator. Budget: \$ 84,802	2007-2009
Western Regional Air Partnership: "New Mexico Pilot Study: Salt Creek and White Mountain Wilderness areas." Role: Principal Investigator. Budget: \$ 20,000	2006
US Department of Energy AC52-06NA26383: "Yucca Mountain Environmental Monitoring Systems Initiative and Phase I of Air Quality Scoping Studies." Role: Co-Investigator	2006-2010
Bernalillo County Air Quality Division: "PM ₁₀ emission inventory for the City of Albuquerque." Role: Co- Investigator	2006
Department of Development, Greece: "Support and accreditation of existing infrastructure of the Atmospheric Chemistry Laboratory of the National Observatory of Athens for providing services on chemical analysis and measurements of atmospheric pollutants with emphasis on public health hazards." Role: Principal Investigator; Budget: 312,900 €	2005-2006

European Commission - Directorate-General for Research & Innovation QLK4-CT-2002-02236: “Air pollution and inflammatory response in myocardial infarction survivors: Gene-environment interactions in high-risk group.” Role: Principal Investigator of Greek consortium: 22,160 €	2005-2006
European Commission – Directorate-General for Research & Innovation QLK4-CT-2002-51599: “Investigation of the chemical interaction between DNA and chemical carcinogens present in urban air-Effect of air pollution on depurinating DNA-adducts formation.” Role: Principal Investigator; Budget: 106,600 €	2003-2006
European Commission - Directorate-General for Research & Innovation QLK4-CT-2001-00452: “Relationships between ultrafine and fine particulate matter in indoor and outdoor air and respiratory health.” Role: Principal Investigator of the Green Exposure team; Budget: 197,690 €	2003-2006
Department of Development, Greece and German Research Foundation (Max Planck Institute for Chemistry): “Formation of secondary organic aerosol.” Role: Principal Investigator; Budget: 20,000 €	2002-2004
Department of Development, Greece and The British Council: “Urban growth and environmental pollution: Development of a sustainable plan.” Role: Principal Investigator; Budget: 17,500 €	2002-2004
Motor Oil S.A.: “Exposure assessment to benzene and HF of workers in oil refineries using biological markers.” Role: Principal Investigator; Budget: 25,000€	2003-2004

PUBLICATIONS

Scientific impact

H-index: 32; Citing articles: 2,851 (excluding self-citations)

Books

Occupational Safety and Health, Kavouras IG and Chalbot M-C (Eds), Nova Scientific Publishers, ISBN: 978-1-63117-695-1, 2014

Book chapters

Environmental solution-state NMR spectroscopy: recent advances, potential and impacts, Chalbot M-C, Kavouras IG. in “Multidimensional analytical techniques in environmental research” (Ed: R Duarte), Elsevier Publishing, Paperback ISBN: 9780128188965

Concentrations and physicochemical properties of ambient aerosol in the northern hemisphere, Chalbot M-C, Kavouras IG. in “Air Pollution and Pollutants” (Ed: W Hejing), Academy Publish, ISBN: 978-1-941249-02-4. 2015

Atmospheric input of natural and anthropogenic organic compounds in the Eastern Mediterranean Sea. Stephanou EG, Gogou A, Kavouras IG. In “Sea-Air Exchange: Processes and Modeling”, Eds. (J.M. Pacyna, D. Broman and E. Lipiatou), 197-201, 1997.

Policy briefs

Pemberton S, Gadhoke P, Brenton BP, Kavouras I. (2021) COVID-19 Widened food isecurity and food access disparities in households with and without children in New York City (July-August 2020). National Food Access and COVID Research Team. <https://www.nfactresearch.org/new-york-city-policy-briefs>

Peer-review papers

(Students underlined, post-doctoral fellows double underlined)

- 103 Kelesidis GA, Moularas C, Parhizkar H, Calderon L, Tsiodra I, Mihalopoulos N, Kavouras I, Korras-Carraca MB, Hatzianastassiou N, Georgopoulos PG, Cedeño Laurent JG, Demokritou P. (2025). Radiative cooling in New York/New Jersey metropolitan areas by wildfire particulate matter emitted from the Canadian wildfires of 2023. *Nature Communications*, 6(1), 304. <https://doi.org/10.1038/s43247-025-02214-3>
- 102 Jia C, Zhang H, Batbaatar N, Naser AM, Li Y, Kavouras I. (2025) Clean Air Benefits and Climate Penalty: A Health Impact Analysis of Mortality Trends in the Mid-South Region, USA. *Climate*. 13(3):45. <https://doi.org/10.3390/cli13030045>
- 101 Cedeño Laurent, J. G., Parhizkar, H., Calderon, L., Lizonova, D., Tsiodra, I., Mihalopoulos, N., Kavouras, I., Alam, M., Baalousha, M., Bazina, L., Kelesidis, G. A., & Demokritou, P. (2024). Physicochemical Characterization of the Particulate Matter in New Jersey/New York City Area, Resulting from the Canadian Quebec Wildfires in June 2023. *Environmental science & technology*, 58(33), 14753–14763. <https://doi.org/10.1021/acs.est.4c02016>
- 100 Lee, B. Y., Pavilonis, B., John, D. C., Heneghan, J., Bartsch, S. M., & Kavouras, I. (2024). The Need to Focus More on Climate Change Communication and Incorporate More Systems Approaches. *Journal of health communication*, 29(sup1), 1–10. <https://doi.org/10.1080/10810730.2024.2361566>
- 99 Miousse, I. R., Hale, R. B., Alsbrook, S., Boysen, G., Broadnax, T., Murry, C., Williams, C., Park, C. H., Richards, R., Reedy, J., Chalbot, M. C., Kavouras, I. G., & Koturbash, I. (2023). Climate Change and New Challenges for Rural Communities: Particulate Matter Matters. *Sustainability*, 15(23), 16192. <https://doi.org/10.3390/su152316192>
- 98 Goldfarb, D. G., Prezant, D. J., Zeig-Owens, R., Hall, C. B., Schwartz, T., Liu, Y., & Kavouras, I. G. (2024). Association of firefighting exposures with lung function using a novel job exposure matrix (JEM). *Occupational and environmental medicine*, 81(2), 84–91. <https://doi.org/10.1136/oemed-2023-109155>
- 97 Hardell J, Silver EJ, Kavouras I, Lee DD, Gross E. (2023) Childhood asthma in the Bronx, NY; the impact of pollutants on length of hospital stay. *Journal of Asthma*, doi: 10.1080/02770903.2023.2225607
- 96 Goldfarb D, Prezant D, Zeig-Owens R, Schwartz T, Kavouras IG. (2023) Development of a job-exposure matrix (JEM) for exposure to smoke particle mass among firefighters of the Fire Department of the City of New York (FDNY). *Occupational and Environmental Medicine*, oemed-2022-108549. doi: 10.1136/oemed-2022-108549
- 95 Dada O, Castillo K, Hogan M, Chalbot MCC, Kavouras IG. (2022) Evidence of the coupling of nicotine, solvents, flavorings, and new particle formation in electronic cigarette vapors. *Scientific Reports*, 12(1):18571. doi: 10.1038/s41598-022-21798-w
- 94 Singh D, Tassew DD, Nelson J, Chalbot MG, Kavouras IG, Demokritou P, Tesfaigzi Y. (2022) Development of an Integrated Platform to Assess the Physicochemical and Toxicological Properties of Wood Combustion Particulate Matter. *Chem Res Toxicol*. 2022 Sep 19;35(9):1541-1557. doi: 10.1021/acs.chemrestox.2c00183.
- 93 Singh D, Tassew DD, Nelson J, Chalbot MG, Kavouras IG, Tesfaigzi Y, Demokritou P. (2022) Physicochemical and toxicological properties of wood smoke particulate matter as a function of wood species and combustion condition. *J Hazard Mater*. 2023 Jan 5;441:129874. doi: 10.1016/j.jhazmat.2022.129874.

- 92 Singh S, Johnson G, DuBois, DW, Kavouras IG. (2022) Assessment of the contribution of local and regional biomass burning on PM_{2.5} in New York/New Jersey metropolitan area. *Aerosol and Air Quality Research*, <https://doi.org/10.4209/aaqr.220121>
- 91 Singh S, Johnson G, Kavouras IG. (2022) The Effect of Transportation and Wildfires on the Spatiotemporal Heterogeneity of PM_{2.5} Mass in the New York-New Jersey Metropolitan Statistical Area. *Environmental Health Insights*. doi:10.1177/11786302221104016
- 90 Nored AW, Shedd JS, Chalbot MCC, Kavouras IG (2022) On the role of atmospheric weathering on paint dust aerosol generated by mechanical abrasion of TiO₂ containing paints. *International Journal of Environmental Research and Public Health* 19 (3), 1265.
- 89 Singh S, Kavouras IG. (2022) Trends of ground-level ozone in New York City area during 2007-2017. *Atmosphere*, 13(1), 114. <https://doi.org/10.3390/atmos13010114>.
- 88 Costa S, Kavouras IG, Cohen N, Huang T (2021) Moving education online during the COVID-19 pandemic: thinking back and looking ahead. *Frontiers of Public Health* 9:751685. doi: 10.3389/fpubh.2021.751685.
- 87 Nored AW, Chalbot MCC, Shin J, Kavouras IG (2021) The effect of particle size, membrane type, and face velocity on TiO₂-containing paint dust filtration. *Journal of the International Society for Respiratory Protection*, 38 (1), 16-25.
- 86 Velazquez K, Scott-Jones A, Chalbot MCC, Kavouras IG (2021) Assessment of state socioeconomic and demographic disparities on coronavirus-2019 mortality during the exponential increase period in the US. *Journal of Public Health and Emergency* 5:14. doi: 10.21037/jphe-20-96
- 85 Chalbot M-C, Siddiqui S, Kavouras IG. (2021) Molecular speciation of size fractionated particulate water-soluble organic carbon by two-dimensional nuclear magnetic resonance (NMR) spectroscopy. *International Journal of Environmental Research and Public Health* 18(3):1334. <https://doi.org/10.3390/ijerph18031334>
- 84 Vora A, Chalbot MCC, Shin J, Kavouras IG (2021) Size distribution and lung deposition of particle mass generated by indoor activities. *Indoor and Built Environment* 30(9) 1344–1352 doi:10.1177/1420326X20939249
- 83 Nelson J, Chalbot MCC, Pavicevic Z, Kavouras I (2020) Characterization of exhaled breath condensate (EBC) non-exchangeable hydrogen functional types and lung function of wildland firefighters. *Journal of Breath Research* 14, 046010. <https://iopscience.iop.org/article/10.1088/1752-7163/abb761>
- 82 Nelson J, Chalbot MCC, Tsiodra I, Mihalopoulos N, Kavouras IG (2020) Physicochemical characterization of personal exposures to smoke aerosol and PAHs of wildland firefighters in prescribed fires. *Exposure and Health* doi: 10.1007/s12403-020-00366-5
- 81 Dada OM, Chalbot MCC, Kavouras IG (2020) Functional characterization of flavorings in electronic cigarette refill liquids by nuclear magnetic resonance spectroscopy. *RSC Analytical Methods* 12, 611-619
- 80 Chalbot MCC, Kavouras IG (2020) NMR characterization of the water-soluble organic carbon in atmospheric aerosol. *Natural Products Communication* 14(5), 1-10. doi: 10.1177/1934578X19849972
- 79 Nored AW, Chalbot MCC, Kavouras IG (2018) Characterization of paint dust aerosol generated from mechanical abrasion of TiO₂-containing paints. *Journal of Occupational and Environmental Hygiene* 15 (9), 629–640. doi: 10.1080/15459624.2018.
- 78 Zhao J, Nelson J, Dada O, Pyrgiotakis G, Kavouras IG, Demokritou P, (2017) Assessing electronic cigarette emissions: linking physico-chemical properties to product, liquid

- flavoring additives, operational voltage and user puffing patterns. *Inhalation Toxicology* 30 (2), 78–88 <https://doi.org/10.1080/08958378.2018.1450462>.
- 77 Chalbot MCG, Pirela SV, Schiffman L, Kasaraneni V, Oyanedel-Craver V, Kavouras IG, Demokritou P. (2017) Functional and structural composition of printer emitted organic aerosol: Implications for carcinogenicity and mutagenicity. *Environmental Sciences: Nano* 4, 2144-2156, <http://dx.doi.org/10.1039/C7EN00573C>.
- 76 Miousse IR, Murphy LA, Lin H, Schisler MR, Sun J, Chalbot MCG, Sura R, Johnson K, LeBaron MJ, Kavouras IG, Schnackenberg LK, Beger RD, Rasoulpour RJ, Koturbash I. (2017) Dose-response analysis of epigenetic, metabolic, and apical endpoints after short-term exposure to experimental hepatotoxicants. *Food and Chemical Toxicology* 109, 690-702 doi: 10.1016/j.fct.2017.05.013 .
- 75 Kavouras IG, Chalbot MCG. (2017) Influence of ambient temperature on the heterogeneity of ambient fine particle chemical composition and disease prevalence. *International Journal of Environmental Health Research* 27(1), 27-39.
- 74 Miousse I, Koturbash I, Chalbot MC, Hauer-Jensen M, Kavouras IG, Pathak R. (2016) Analysis of the ambient particulate matter-induced chromosomal aberrations using an in vitro system. *Journal of Visualized Experiments* 118, e54969. doi: 10.3791/54969.
- 73 Kavouras IG, DuBois DW, Nikolich G, Avittia ACY, Etyemezian V. (2016) Particulate dust emission factors from unpaved roads in the U.S. – Mexico border semi-arid region. *Journal of the Arid Environments* 124, 189-192.
- 72 Sotiriou GA, Singh D, Zhang F, Chalbot MCG, Spielman-Sun E, Hoering L, Kavouras IG, Lowry GV, Wohlleben W, Demokritou P. (2016) End of life of nano-enabled thermoplastics by thermal decomposition: Possible environmental health and safety implications. *Journal of Hazardous Materials* 305, 87-95.
- 71 Chalbot MCG, Chitranshi P, da Costa GG, Pollock ED, Kavouras IG. (2016) Characterization of water-soluble organic matter in urban aerosol by 1H-NMR spectroscopy. *Atmospheric Environment* 128, 235-245
- 70 Chalbot MCG, Nicolis I, Guihenneuc-Jouyaux C, Kavouras IG (2016) Multi-year analyses of ground-level air contaminants over Paris metropolitan region using real-time observations and air mass backward trajectories. *Particuology* 28, 60-71. doi:10.1016/j.partic.2015.10.005.
- 69 Kavouras IG, DuBois DW, Nikolich G. Etyemezian V. (2015) Monitoring, source identification and health risks of air toxics in Albuquerque, New Mexico. *Air and Aerosol Quality Research* 15, 556-571.
- 68 Chalbot MCG, Kavouras IG. (2015) Étude des effets toxiques des particules en suspension dans l'air ou déposées sur le sol, suite à l'exposition intérieure ou extérieure. *Bulletin de Veille Scientifique* 26, 42-46.
- 67 Gomes T, Chalbot MC, Kavouras IG. (2015) UVA and melanoma of the skin incidences: Spatial patterns and communities at-risk. *Journal of Environmental Health* 77 (9), 8-14.
- 66 Sotiriou GA, Singh D, Zhang F, Wohlleben W, Chalbot MCG, Kavouras IG, Demokritou P. (2015) An integrated methodology for the assessment of environmental health implications during thermal decomposition of nano-enabled products. *Environmental Science: Nanotechnology* 2, 262. doi: 10.1039/C4EN00210E.
- 65 Engelbrecht JP, Kavouras IG, Shafer DS, Campbell D, Campbell S, McCurdy G, Kohl SD, Nikolich G, Sheetz L, Gertler AW. (2015) Chemical variability of PM₁₀ and PM_{2.5} in southwestern rural Nevada, U.S.A.. *Water, Air and Soil Pollution* 226:217, doi: 10.1007/s11270-015-2481-8.

- 64 Miousse-Racine I, Chalbot MCG, Lumen A, Ferguson A, Kavouras IG, Koturbash I. (2015) Transposable elements in response to environmental stressors. *Mutation Research-Reviews* 765, 19-39. doi:10.1016/j.mrrev.2015.05.003.
- 63 Pal KA, Watson C, Pirela SV, Singh D, Chalbot M-CG, Kavouras IG, Demokritou P. (2015) Linking exposures of particles released from nano-enabled products to toxicology: An integrated methodology for particle sampling, extraction, dispersion and dosing. *Toxicological Sciences* 146 (2), 321-333.
- 62 Rodopoulou S, Samoli E, Chalbot M-C, Kavouras IG. (2015) Air pollution and cardiovascular and respiratory emergency visits in Central Arkansas. *Science of the Total Environment* 536, 872-879.
- 61 Miousse-Racine I, Chalbot MCG, Pathak R, Lu X, Nzabarushimana E, Krager K, Aykin-Burns N, Hauer-Jensen M, Demokritou, P, Kavouras IG, Koturbash I. (2015) Exposure to soil dust results in hypomethylation and transcriptional activation of satellite DNA and leads to chromosomal aberrations in mouse macrophages. *Toxicological Sciences* 148 (2), 473-487.
- 60 Ferguson A, Ulmer R, Harris K, Kavouras I, Richison A. (2015) Applying Liberating Structures to Improve Teaching: Pilot Study Results. *Journal of Health Education Research and Development* 3:136. doi:10.4172/2380-5439.1000136.
- 59 Rodopoulou S, Chalbot M-C, Samoli E, DuBois DW, San Filippo BD, Kavouras IG. (2014) Air pollution and hospital emergency room and admissions for cardiovascular and respiratory diseases in Doña Ana County, New Mexico. *Environmental Research* 129, 39-46.
- 58 Kavouras IG (2014) Exposition des sapeurs-forestiers aux polluants émis par la combustion de biomasse et recherche d'un biomarqueur d'exposition. *Bulletin de Veille Scientifique*, 23, 46-50.
- 57 Miousse-Racine I, Chalbot M-C, Aykin-Burns N, Wang X, Basnakian A, Kavouras IG, Koturbash I. (2014) Epigenetic alterations induced by ambient particulate matter in mouse macrophages. *Environmental and Molecular Mutagenesis* 55, 428-435 doi: 10.1002/em.21855
- 56 Chalbot M-C, Kavouras IG. (2014) Nuclear magnetic resonance spectroscopy for determining the functional content of organic aerosols: a review. *Environmental Pollution* 191, 232-249.
- 55 Chalbot M-C, Brown J, Chitranshi P, da Costa GG, Pollock ED, Kavouras IG (2014) Functional characterization of the water-soluble organic carbon of size fractionated aerosol in southern Mississippi Valley. *Atmospheric Chemistry and Physics* 14, 6075-6088.
- 54 Chalbot MC, Jones T, Kavouras IG. (2014) Trends of non-accidental, cardiovascular and stroke mortality in Arkansas are associated with ambient PM_{2.5} reductions. *International Journal of Environmental Research and Public Health* 11, 7442-7455
- 53 Vargas V, Chalbot M-C, O'Brien R, Nikolich G, DuBois D, Etyemezian V, Kavouras IG. (2014) The effect of anthropogenic volatile organic compounds sources on ozone in Boise, Idaho. *Environmental Chemistry* 11 (4), 445-458.
- 52 Chalbot MC, Kavouras IG (2014) Détermination des effets épigénétiques liés à l'exposition aux polluants de l'air. *Bulletin de Veille Scientifique* 25, 42-46.
- 51 Ferguson A, Kavouras IG, Ulmer R, Harris K, Helm R, Bursac Z. (2014) Environmental health education for teachers: Results from a pilot study addressing chemical use reduction and integrated pest management in homes. *Journal of Community Medicine and Health Education* 4, 318. doi:10.4172/2161-0711.1000318.

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- 11 Kavouras IG, Stratigakis N, Stephanou EG. (2001) Chemical characterization of emissions from vegetable-oil processing and their contribution to aerosol mass using the organic molecular markers approach. *Journal of the Air and Waste Management Association* 51, 552-561.
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- 7 Kavouras IG, Ferguson ST, Wolfson JM, Koutrakis P. (2000) Development and validation of a high-volume low-cutoff inertial impactor (HVLI). *Inhalation Toxicology* 12, 35-50.
- 6 Clarke RW, Coull B, Reinisch U, Catalano P, Killingsworth CR, Koutrakis P, Kavouras IG, Krishna-Murty GG, Lawrence J, Lovett E, Wolfson JM, Verrier RL, Godleski JJ. (2000) Inhaled concentrated ambient particles induce pulmonary inflammation and hematological changes in canines. *Environmental Health Perspectives* 108, 1172-1187.
- 5 Kavouras IG, Mihalopoulos N, Stephanou EG. (1999) Secondary organic aerosol formation vs. primary organic aerosol emissions: *In situ* evidence for the chemical coupling between monoterpene acidic photo-oxidation products and new particle formation over forests. *Environmental Science and Technology* 7, 1028-1037.
- 4 Kavouras IG, Lawrence J, Koutrakis P, Stephanou EG, Oyola P. (1999) Measurement of particulate aliphatic and polynuclear aromatic hydrocarbons in Santiago de Chile: Source reconciliation and evaluation of sampling artifacts. *Atmospheric Environment* 33, 4977-4986.
- 3 Kavouras IG, Mihalopoulos N, Stephanou EG (1999) Formation and gas/particle partitioning of monoterpenes photo-oxidation products over forests. *Geophysical Research Letters* 26, 55-58.
- 2 Kavouras IG, Mihalopoulos N, Stephanou EG (1998) Formation of atmospheric particles from organic acids produced by forests. *Nature* 395, 683-686.
- 1 Kavouras IG, Stratigakis N, Stephanou EG (1998) *Iso* and *anteiso*-alkanes: specific tracers of environmental tobacco smoke in indoor and outdoor particle-size distributed urban aerosols. *Environmental Science and Technology* 10, 1369-1377.

INVITED PLENARY CONFERENCE CONTRIBUTIONS

The 4th International Electronic Conference on Atmospheric Sciences, July 16-31, 2021, Keynote speaker, Climate Change, human health and environmental justice.

National Firefighter Cancer Symposium 2021, Invited Speaker and Panel Member, Wildland and Wildland Urban Interface Firefighters, Orlando, FL, 2021.

Emergency Responder Health and Safety Conference, Invited Panel Member, New York City, 2020

American Industrial Hygiene Association, Professional Development Course. Climate Change and Occupational Health. AIHA National Meeting, Seattle, WA, 2017

Organizer, American Chemical Society Symposium: Chemistry of Lower Atmosphere, ACS 247th National Meeting, Dallas, TX. 2014

International Symposium on Recent Advances in Environmental Health Research: Air pollution and hospital emergency room and admissions for cardiovascular and respiratory diseases, 2013

Plenary speaker, Arkansas National Association of Housing and Redevelopment Officials Winter Meeting: Healthy Homes, 2013

Plenary speaker, Arkansas Conference for Home Visitation and Parenting Education: Workshop: Maintaining a Healthy Home: Asthma, Allergies, Radon, Mold and Carbon Monoxide, 2013

Southwest Border Symposium on Air Quality and Climate: Air pollution and health in southern New Mexico, 2013

Arkansas Department of Health, Health Research, Policy and Health Promotion Conference:

Sources and trends of fine particulate matter in central Arkansas, 2011
 Bernalillo County Air Quality Board: Air Toxics Risk Assessment in Bernalillo County, 2009
 Chair of the Session “Fugitive Dust” of the 2007 Emission Inventory Conference, Raleigh, NC, May 2007
 Northwest International Air Quality Environmental Science and Technology Consortium: Precursors and Sources of PM_{2.5} in the Treasure Valley, Idaho
 Panhellenic Pulmonary Conference: Methods to measure personal exposures, 2006
 Western Regional Air Partnership Dust Forum: 1. Causes of dust, ambient data analysis and; 2. New Mexico SIP pilot project, 2005
 Chair of the Session “Urban aerosol” of the 7th International Conference on Carbonaceous Particles in the Atmosphere, San Juan, Puerto Rico, November 2000

CONFERENCE PROCEEDINGS (PEER-REVIEWED)

1. Jia C, Zhang H, Batbaatar N, Naser AM, Kavouras I. Clean air benefits and climate penalty: a case study on mortality in Memphis APHA 2023 Annual Meeting and Expo, Nov. 12 - Nov. 15, 2023, Atlanta, GA.
2. Geer LA, Hoepner L, Kavouras IG, Clare CA. Climate Inclusive Clinical Research: Interprofessional Engagement and Training around Climate and Health Equity Symposium – April 5, 2022, APHA 2022.
3. Goldfarb DG, Prezant DJ, Zeig-Owens R, Schwartz T, Liu Y, Kavouras IG. Evaluating incident response data among World Trade Center-exposed Fire Department of the city of New York (FDNY) firefighters between 2010 through 2021. National Firefighter Cancer Symposium 2022
4. Hardell J, Kavouras I, Silver EJ, Lee DS, Gross E. “Ambient ozone, weight status, and pediatric asthma hospitalizations in Bronx, NY”. International Society of Exposure Science Annual Meeting, 2021.
5. Nelson, J, Chalbot, MC, Kavouras, IG. "Cardiovascular Health Response to Biomass Smoke Particulate Matter Exposure Among Wildland Firefighters," SETAC North America 40th Annual Meeting, Toronto, Canada. (2019).
6. Dada O, Chalbot MC, Kavouras IG "Characterization of Electronic Cigarette Liquids by 1D and 2D NMR Spectroscopy," SETAC North America 40th Annual Meeting, Toronto, Canada. (2019).
7. Nelson, J, Chalbot, MC, Kavouras, IG. (2019) "Biomass Smoke Exposure and the Potential Cardiovascular Health Effects in Wildland Firefighters" American Industrial Hygiene Conference and Exposition (AIHce), May 20-22, 2019, Minneapolis, MN *Best in Show Student Poster Bronze, The Carol Rice Best Student Poster in Occupational and Environmental Epidemiology*)
8. Dada O, Chalbot MC, Kavouras IG (2019) "Characterization of Electronic Cigarette Liquid by Nuclear Magnetic Resonance Spectroscopy" American Industrial Hygiene Conference and Exposition (AIHce), May 20-22, 2019, Minneapolis, MN
9. Nored AW, Chalbot, MC, Kavouras, IG. (2018) The characterization of nanoparticle emissions from aerosolized paint dust SETAC North America 39th Annual Meeting, Sacramento, CA
10. Nelson, J, Chalbot, MC, Kavouras, IG. (2018) Assess personal smoke exposure and acute lung inflammation metabolomics of Exhaled Breath Condensate in fire fighters by NMR-spectroscopy. SETAC North America 39th Annual Meeting, Sacramento, CA (SETAC Student Travel Award)

11. Dada O, Chalbot MC, Kavouras IG, Demokritou P. (2018) Characterization of Electronic Cigarette Liquids and Vapors, a novel methodology. SETAC North America 39th Annual Meeting, Sacramento, CA (SETAC Student Travel Award)
12. Jordan Nelson, Marie-Cecile G. Chalbot , Kavouras IG (2018) Biomass Smoke Exposure and the Potential Pulmonary Health Effects in Wildland Firefighters. AIHce 2018, Philadelphia, PA (*Best in Show Student Poster Gold, The Carol Rice Best Student Poster in Occupational and Environmental Epidemiology, Toxicology Committee Best Student Poster and Students and Early Career Professional Committee Best Student Poster*).
13. Dada O, Chalbot MCC, Demokritou P, Kavouras IG (2018) *Investigation of electronic cigarette refillable solutions and vapors*. AIHce 2018, Philadelphia, PA
14. Nored AW, Chalbot MCC, Kavouras IG (2018) The effect of weathering on the release of TiO₂ paint dust by mechanical abrasion. AIHce 2018, Philadelphia, PA
15. Jordan RN, Chalbot MCC, Kavouras IG (2017) Assess personal smoke exposure and acute lung inflammation metabolomics of exhaled breath condensate in firefighters by NMR-spectroscopy. SETAC North America 38th Annual Meeting, Minneapolis, MN
16. Jordan RN, Chalbot MCC, Kavouras IG (2017) Biomass smoke exposure and the potential pulmonary health effects in wildland firefighters. SouthEastern Environmental Conference, Orange Beach, AL (*2nd Best Student Poster Award*)
17. Dada O., Chalbot MCC, Kavouras IG (2017) Electronic cigarette: specifics of electronic cigarette liquid (e-liquid) composition. SouthEastern Environmental Conference, Orange Beach, AL
18. Nored AW, Kavouras IG (2017) Characterization of nanoparticle emissions from aerosolized paint dust. SouthEastern Environmental Conference, Orange Beach, AL
19. Chalbot MCG, Kavouras IG (2017) Applying environmental omics to apportion the origin, chemical and toxicological profiles of organic aerosols. SETAC North America 38th Annual Meeting, Minneapolis, MN
20. Kavouras IG, Chalbot MCG, Pavicevic Z. (2017) Smoke and acute lung function decline if wildland firefighters. AIHce2017, Seattle, WA
21. Nored AW, Kavouras IG (2017) Characterization of nanoparticle emissions from aerosolized paint dust AIHce2017, Seattle, WA (*Best Student Poster Award*)
22. Badhran R, Chalbot MCG, Davis M, Kavouras IG, Lungu T. (2017) Assessment of Psychosocial Work Stress and Oxidative Stress among Emergency Room Nurses in a US Hospital. AIHce2017, Seattle, WA
23. Etyemezian V, Engelbrecht J, Gillies J, Kavouras I., DuBois D. (2015) Overview of mineral dust as an air pollutant. The International Society of Exposure Science, Henderson, NV.
24. Kavouras IG, Rodopoulou S, Samoli E, Chalbot MC, DuBois D, San Filippo B. (2015) Mineral dust and hospital respiratory and cardiovascular emergency room and hospital admissions. The International Society of Exposure Science, Henderson, NV.
25. Miousse IR, Chalbot MC, Demokritou P, Kavouras IG, Koturbash I. (2015) In vitro toxicity and epigenotoxicity of ambient particulate matter collected at different sites. The International Society of Exposure Science, Henderson, NV.
26. Kavouras IG, Lungu CT. (2015) Greenhouse gases and occupational hazards: Current status, future directions and implications to energy, industry and transportation. Alabama Environmental Conference, Orange Beach, AL.
27. Kavouras IG, Chalbot MC (2015) Understanding how global change affects our quality of life and health 2nd Annual Community Engagement Institute, Birmingham, AL.
28. Miousse IR, Chalbot MCG, Pathak R, Lu X, Nzabarushimana E, Krager K, Aykin-Burns N, Hauer-Jensen M, Demokritou P, Kavouras IG, Koturbash I. (2015) In Vitro Toxicity and

- Epigenotoxicity of Different Types of Particulate Matter. 46th Environmental Mutagenesis and Genomics Society Annual Meeting, New Orleans, LA.
29. Miousse IR, Chalbot MCG, Nzabarushimana E, Kavouras IG, Koturbash I. (2014) Effects of the type of particulate matter on epigenetic response. South Central Chapter of Society of Toxicology Annual Meeting, Oxford, MS. (*Award for the best non-student presentation.*)
 30. Ferguson A, Kavouras IG, Ulmer RR, Harris K, Gandy J, Fitzpatrick S (2014) Liberating Structures for Teachers, Institutes, Parents, and Students on Pest Management and Chemical Use Reduction in Homes. National Healthy Homes Conference, Nashville, TN
 31. Chalbot M-C, Brown J, Chitranshi P, da Costa GG, Pollock ED, Kavouras IG (2014) H-NMR characterization of water soluble compounds in size-segregated aerosols in an urban area. 247th ACS National Meeting and Exposition, Dallas, TX.
 32. Miousse IR, Chalbot MCG, Nzabarushimana E, Kavouras IG, Koturbash I. (2014) Effects of the source and chemical composition of particulate matter on epigenetic response in macrophages. 45th Environmental Mutagenesis and Genomics Society Annual Meeting, Orlando, FL. (*EMGS New Investigator Travel Award Winner*)
 33. Miousse IR, Chalbot MC, Nzabarushimana E, Kavouras I, Koturbash I. (2014) Short-term exposure to different sources of particulate matter affects epigenetic mechanisms in lung macrophages. UAMS Research Day, Little Rock, AR.
 34. Chalbot, M.C., Brown, J., Chitranshi, P., Gamboa da Costa, G., Kavouras, I.G., 2014. Atmospheric organic aerosol characterization by nuclear magnetic resonance spectroscopy. SETAC North America 35th Annual Meeting in Vancouver, Canada. November 10-14, 2014.
 35. Kavouras IG, Racine-Miousse I, Chalbot MC, Aykin-Burns N, Wang X, Basnakian A, Koturbash I. (2013) Epigenetic alterations induced by non-cytotoxic concentrations of ambient particulate matter in the RAW264.7 macrophages. 2013 Annual Meeting, South-Central Chapter of Society of Toxicology. Baton Rouge, LA
 36. Chalbot M-C, Brown J, da Costa GG, Kavouras IG. (2013) Soil humic-like organic compounds in fire emissions. Society of Environmental Toxicology and Chemistry Annual Meeting, Nashville, TN, USA
 37. Rodopoulou S, Chalbot M-C, Samoli E, DuBois DW, San Filippo BD, Kavouras IG. (2013) Air pollution and hospital emergency room and admissions for cardiovascular and respiratory diseases in Doña Ana County, New Mexico. 2013 Conference of the International Medical Geology Association, Arlington, VA, USA
 38. DuBois DW, Chalbot M-C, Kavouras IG. (2013) Assessment of the contribution of wildfires on ozone concentrations in the central US-Mexico border region. Environmental Health, Boston, MA, USA.
 39. Lianou M, Kavouras IG, Kopania T, Kotronarou A. (2012) The impact of wind conditions on particle mass concentrations in Athens, Greece. 11th International Conference on Meteorology, Climatology and Atmospheric Physics. Athens, Greece.
 40. Casas M, Den Hond E, Kavouras I, Pierik F, Slama R, Toft G, Wilhelm M, Vrijheid M. (2011) Measurement of emerging environmental contaminants in European birth cohorts: an inventory and recommendations. 23rd International ISEE conference, Barcelona, Spain.
 41. Kavouras IG, Vandentorren S, Vacquier B, Boudet C, Declercq C. (2010) The ELFE study. SLLS Conference: Developments and Challenges in Longitudinal Studies from Childhood. Cambridge, UK.
 42. Shafer DS, Etyemezian V, Chief K, Dubois D, Kavouras IG, King J, Miller JJ, Nikolich G, Zitzer .F. (2010) Ecological and physical response and feedbacks to fires in western North American deserts. International Conference on Dryland Development. Oman.

43. King J, Shafer DS, Etyemezian V, Kavouras IG, Nikolich G. (2010) Measuring potential wind erosion from a rangeland fire in the Mojave-Great Basin transition zone. 16th Wildland Shrub Symposium, Logan, Utah.
44. Lianou M, Kavouras IG, Kotronarou A. (2010) Factors affecting the spatial distribution of PM₁₀ in Athens. 10th International Conference on Meteorology Climatology and Atmospheric Physics, Athens, Greece.
45. Kavouras IG, DuBois DW, Nikolich G, Etyemezian V. (2009) Impacts of wildfires of exposures to ozone and particulate matter. ISES 2009. Minnesota, USA.
46. DuBois D, Kavouras IG, Nikolich G. (2009) Boundary layer profiling using various techniques for air quality assessments. 89th Annual Meeting of the American Meteorological Society. Arizona, USA.
47. Shafer DS, Miller JJ, Dubois D, Etyemezian V, Kavouras I, Nikolich G, Zitzer SF. (2009) Measuring potential fluvial and Aeolian erosion from a rangeland fire in the Mojave-Great Basin transition zone. 2009 GSA Annual Meeting, Oregon, USA.
48. Lianou M, Lazaridis M, Kavouras IG. (2009) Factors affecting the indoor particle number concentrations in 35 residencies in Athens. 7th International Conference on Air Quality - Science and Application. Istanbul, Turkey.
49. Kavouras IG, DuBois DD, Etyemezian VE, Louks B, Herr H, O'Brien R. (2008) Impacts of wildfires and mobile emission on ozone concentrations in Treasure Valley. A&WMA 2008 Annual Conference and Exhibition. Oregon, USA.
50. Kavouras IG, Etyemezian VE, DuBois DD, Xu J, Pitchford MP. (2008) Sources of atmospheric dust in Class I areas of the Western US. General Assembly of European Geophysical Society Vienna, Austria.
51. Shafer D, DuBois D, Etyemezian V, Kavouras I, Miller JJ, Nikolich G, Stone M. (2007) Fire as a long-term stewardship issue for soils contaminated with radionuclides in the western US. Proceedings of the 11th International Conference on Environmental Remediation and Radioactive Waste Management IREM2007. Brussels, Belgium.
52. Lianou M, Kavouras IG, Kotronarou A, Lazaridis M, Lykoudis S. (2006) Factors affecting the spatial distribution of PM₁₀ in Athens. 8th International Conference on Meteorology Climatology and Atmospheric Physics. Athens, Greece
53. Kavouras IG, Kotronarou A, Lianou M, Chalbot M-C, Vei I, Akylas E. (2006) Relationships between particle number and mass concentrations in an urban area. 2006 AWMA Annual Conference & Exhibition. New Orleans, LA, USA.
54. Kavouras IG, Etyemezian V, Xu J, DuBois D, Pitchford M, Green M. (2006) Investigation of the sources of coarse particles in Western United States. 2006 AWMA Annual Conference & Exhibition. New Orleans, LA, USA.
55. Xu J, Kavouras IG, DuBois D, Etyemezian V, Green M, Pitchford M. (2006) Contribution of smoke to regional haze in the Class I areas of the Western United States. 7th International Aerosol Conference. Minneapolis, MN, USA.
56. Kavouras IG, Xu J, Etyemezian V, DuBois D, Green M, Pitchford M. (2006) Contributions of dust and smoke on aerosol extinction coefficient. *Eos Trans AGU*, 87(52) Fall Meet Suppl, Abstract A43B-0135.
57. Sgourena E, Stamatis G, Kavouras IG, Tsiros I. (2006) Wet deposition composition in Athens basin in relation to the atmospheric pollution. 8th International Conference on Meteorology Climatology and Atmospheric Physics. Athens, Greece.
58. Kavouras IG, Etyemezian V, Xu J, DuBois D, Pitchford M. (2005) Investigating the causes of dust in western United States. *Eos Trans AGU*, 86(52) Fall Meet Suppl, Abstract A31A-0813.

59. Petrakis M, Kavouras IG, Psiloglou B, Lykoudis S, Kopania T. (2005) Assessment of traffic induced pollution from the new highway of Athens (AttikiOdos). Proceedings of the 10th International Conference on Harmonization within Atmospheric Dispersion Modeling for Regulatory Purposes.
60. Lianou M, Kavouras IG, Kotronarou A. (2004) Investigation of processes affecting PM₁₀ and PM_{2.5} mass concentrations in Athens metropolitan area. Meteorology and sources. 7th International Conference on Meteorology Climatology and Atmospheric Physics. Nicosia, Cyprus.
61. Kambezidis HD, Lykoudis S, Psiloglou BE, Kavouras IG. (2004) UV-R radiation in the Athens area Greece in the period 1989-2003. CIE Light and Health 2004. Vienna, Austria.
62. Winterhalter R, Römpf A, Kavouras IG, Moortgat GK. (2003) Products from the reaction of monoterpenes with ozone and their distribution between the gas- and particle-phase. Atmospheric Sciences Program EGS-AGU-EUG Joint Assembly. Nice, France.
63. Stephanou EG, Kavouras IG. (2003) Atmospheric secondary organic aerosol formation through heteromolecular nucleation. Atmospheric Sciences Program EGS-AGU-EUG Joint Assembly. Nice, France.
64. Kavouras IG, Stephanou EG. (2002) Direct evidence of atmospheric secondary organic aerosol formation through heteromolecular nucleation. Atmospheric Chemistry within the Earth System: From Regional Pollution to Global Climate Change, Heraclion, Greece.
65. McDow S, Moeini-Nombel L, Lee M-H, Kavouras IG, Allen GA, Koutrakis P (2002) Organic composition of PM_{2.5} in the NorthEast Oxidation and Particulate Study using a low cut-off inertial impactor. 4th Conference on Atmospheric Chemistry The 2002 Annual Meeting American Meteorology Society. Miami, FL, USA.
66. Kavouras IG, Mihalopoulos N, Stephanou EG. (2000) Formation of biogenic secondary organic aerosol. *Journal of Aerosol Science* 31, S172-S173.
67. Kavouras IG, Mihalopoulos N, Stephanou EG. (2000) Formation of secondary organic aerosol. 5th International Conference on Protection and Restoration of the Environment. Thassos, Greece.
68. Kavouras IG, Koutrakis P. (2000) Polyurethane foam: A high-capacity collection medium of particles by impaction. 5th International Conference on Protection and Restoration of the Environment. Thassos, Greece.
69. Kavouras IG, Stephanou EG. (2000) Heterogeneous heteromolecular nucleation: A possible mechanism for the formation of biogenic secondary organic aerosol. 7th International Conference on Carbonaceous Particles in the Atmosphere. Puerto Rico.
70. Koutrakis P, Demokritou P, Kavouras IG, Ferguson ST. (2000) Development of particle sampling techniques for inhalation studies. 19th Conference of American Association for Aerosol Research. St. Louis, MI, USA.
71. Kavouras IG, Koutrakis P, Tsapakis M, Stephanou EG, Oyola P, von Baer D. (2000) Source apportionment of urban PAHs using multivariate statistical methods. 7th International Conference on Carbonaceous Particles in the Atmosphere. Puerto Rico.
72. Oyola P, Martinez R, Flores V, Kavouras IG, Koutrakis P, von Baer D, Gidhagen L, Artaxo P (2000) Measurement and Trajectory Analysis of PM_{2.5} Elemental and Organic Carbon in Santiago Metropolitan Region Chile. 7th International Conference on Carbonaceous Particles in the Atmosphere. Puerto Rico.
73. von Baer D, Kavouras IG, Koutrakis P, Lagoudaki E, Stephanou EG, Oyola P (2000) Comparison of hydrocarbon and polynuclear aromatic hydrocarbon profiles of organic aerosol in Santiago and Temuco (Chile). 7th International Conference on Carbonaceous Particles in the Atmosphere. Puerto Rico.

74. Kavouras IG, Koutrakis P. (2000) Design and performance of a high-capacity cascade impactor. 19th Conference of American Association for Aerosol Research. St. Louis, MI, USA.
75. Kavouras IG, Demokritou P, Ferguson ST, Koutrakis P. (2000) High volume cascade impactor for toxicological and chemical characterization studies. 19th Conference of American Association for Aerosol Research. St. Louis, MI, USA.
76. Koutrakis P, Demokritou P, Ding Y, Kavouras IG, Ferguson ST. (2000) Development of particle sampling techniques for inhalation studies. 19th Conference of American Association for Aerosol Research. St. Louis, MI, USA.
77. Kavouras IG, Ferguson ST, Koutrakis P. (2000) Use of polyurethane foam as impaction substrate/collection medium in conventional impactors for toxicological and chemical speciation studies. PM2000: Particulate matter and health-The scientific basis for regulatory decision making. Charleston, SC, USA.
78. Demokritou P, Kavouras IG, Ferguson ST, Wolfson JM, Koutrakis P, Wheeler A. (2000) A personal environmental monitoring system for measurements of particulate and gaseous pollutants. PM2000: Particulate matter and health-The scientific basis for regulatory decision making. Charleston, SC, USA.
79. Kavouras IG, Mihalopoulos N, Stephanou EG. (1999) Formation and gas/particle partitioning of monoterpenes photo-oxidation products over forests. 24th General Assembly of European Geophysical Society. The Hague, The Netherlands.
80. Kavouras IG, Ferguson ST, Wolfson JM, Koutrakis P. (1999) Use of polyurethane foam (PUF) as an impaction substrate. 18th Conference of American Association for Aerosol Research Seattle, WA, USA.
81. Kavouras IG, Ferguson ST, Wolfson JM, Koutrakis P. (1999) Design and characterization of a high-volume impactor for particle toxicological and characterization studies 3rd Colloquium on Particulate Air Pollution and Human Health. Durham, NC, USA.
82. Kavouras IG, Demokritou P, Koutrakis P. (1999) Measurement techniques of particles in indoor environment. 3rd International Scientific Conference of Technical Chamber of Greece. Athens, Greece.
83. Demokritou P, Kavouras IG, Koutrakis P. (1999) Experimental methods to measure air exchange rates and contaminants concentration levels in the building environment. 3rd International Scientific Conference of Technical Chamber of Greece. Athens, Greece.
84. Bonsang B, Kanakidou M, Mihalopoulos N, Kavouras IG, Stephanou EG, Pio C, Nunes T, Alves C, Gomes P, Seakins P, Lewis A, Harrison D, Boissard C, Gros V, Sanak J. (1998) Field observation and modeling of the formation of biogenic organic aerosols in Mediterranean Area. 23rd General Assembly of European Geophysical Society. Nice, France.
85. Kavouras IG, Mihalopoulos N, Stephanou EG. (1998) Field evidence for the chemical coupling between terpenes acidic photo-oxidation products and new particle formation over forested areas. Joint International Symposium on Global Atmospheric Chemistry. Seattle, WA, USA.
86. Kavouras IG, Apostolaki M, Stephanou EG. (1997) Determination of fine organic aerosol content in semi-rural and forest areas in Portugal. 6th International Conference on Carbonaceous Particles in the Atmosphere. Vienna, Austria.
87. Stephanou EG, Gogou A, Kavouras IG. (1997) Atmospheric input of natural and anthropogenic organic compounds in the Eastern Mediterranean Sea. European Workshop on Sea-Air Exchange: Processes and Modeling. Oslo, Norway.
88. Kavouras IG, Mihalopoulos N, Stephanou EG, Lousse C, Cachier H, Kanakidou M, Nguyen B-C, Dulac F, Quisefit J-P, Chazette P. (1996) Measurements of aerosol composition and optical depth above Eastern Mediterranean Area. 21st General Assembly of European Geophysical Society. The Hague, The Netherlands.

CURRICULUM DEVELOPMENT

University of Memphis

PUBH 4013 Public Health Emergency Preparedness (undergraduate)

PUBH 7014 Environmental Contaminants in Health(graduate)

City University of New York

EOHS 695 Public Health Emergency Preparedness, Climate and Response (graduate)

EOHS 622 Environmental and Occupational Toxicology (graduate)

EOHS 647 Climate Change and Public Health (graduate)

EOHS 621 Environmental Chemistry (graduate)

University of Alabama at Birmingham

PUH 498 Climate Change, Health and Environment (undergraduate)

ENH 601 Environmental Chemistry (graduate)

ENH 609 Climate Change and Global Health (graduate)

ENH 763 Aerosol Technology (doctoral)

ENH 701 Advanced Environmental Chemistry (doctoral)

University of Arkansas for Medical Sciences

PBHL 6053 Climate Change and Public Health (graduate)

University of Crete

SEE 610 Ecological Risk Assessment: Pollutants Source Apportionment (graduate)

TEACHING EXPERIENCE

University of Memphis

PUBH 2181 Population Health and Society(course, director), 2024

PUBH 7985 Practicum (course, director), 2025

PUBH 7992 Master's Project Seminar (course, co-director), 2025

PUBH 4013 Public Health Emergency Preparedness (course, director), 2025

PUBH 7014 Environmental Contaminants in Health (course, director), 2025

Texas Tech University Health Sciences Center, Southwest Center of Pediatric Environmental Health, Toxicology Division, Department of Emergency Medicine

Pediatric Environmental Health (invited contributor), Fall 2021.

City University of New York

EOHS 695 Public Health Emergency Preparedness, Climate and Response (course, director), 2021

EOHS 895 Emerging Issues in Environmental and Occupational Health (course director), 2019

EOHS 622 Environmental and Occupational Toxicology (course director), 2019

EOHS 695 Climate Change and Global Health (course director), 2018, 2019, 2021

EOHS 621 Environmental Chemistry (course director), 2018, 2019, 2020, 2021

PUBH 698 Capstone Project (course director), 2018, 2019, 2020, 2021, 2022

University of Alabama at Birmingham

ENH 601 Environmental Chemistry (course director), 2017

ENH 763 Aerosol Technology (course director), 2017

PUH 498 Climate Change, Environment and Health (course director), 2016, 2017

ENH 611 Environmental and Occupational Exposure Assessment (course director), 2016, 2017

ENH 705/609 Climate Change and Global Health (course director), 2016, 2017

ENH 790 Current Topics in Environmental and Occupational Health and Safety (course director), 2015, 2016
 NUR 798 Research Practicum (course director/mentor), 2016
 PUH 491 Undergraduate Research (course director/mentor), 2016
 PUH 498 Climate Change, Environment and Health (course director), 2016, 2017
 PUH 498 Undergraduate Directed Research (course director/mentor), 2016
 University of Arkansas for Medical Sciences
 PBHL 6053 Climate Change and Public Health (course director), 2014, 2015
 PBHL 5043 Occupational and Environmental Hazard Control (lectures), 2011, 2012, 2013, 2014
 Before 2011 (University of Nevada, Las Vegas; University of Crete, Harvard University)
 CEE 452/652 Air Pollution Control. (Lectures, UNLV), 2009
 EE 610 Ecological Risk Assessment: Pollutants Source Apportionment. (Course director, UoC), 2002
 EH 297-01 Air Pollution: Sources, Effects and Modelling (lectures, HSPH), 1999

MENTORING

Post-doctoral fellows

Adamantini Paraskevopoulou – Academic advisor (2002-2004) [Currently Associate Professor at Aristotle University of Thessaloniki]
 Marie-Cecile Chalbot – Academic advisor (2003-2005) [Currently Associate Professor at CUNY College of Technology]
 Ino-Christina Vei – Academic advisor (2003-2005) [Currently Scientist at State Chemical Labs, Greece]

Doctoral students

Adrianna Eugene – Dissertation Committee, PhD in EPHS (CUNY SPH, 2022-)
 Carice Graffey – Dissertation Committee, DrPH in EOHS Qualifying exam chair (CUNY SPH, 2020-)
 David Goldfarb – Academic advisor, PhD in EPHS dissertation committee chair (CUNY SPH, 2018-2022) [Currently Research Associate at Fire Department of New York]
 Subrahman Singh – Academic advisor, DrPH in EOHS Qualifying exam chair, PhD dissertation committee chair (CUNY SPH, 2019-2022) [Currently Scientist at NYC Department of Environmental Conservation]
 Adam Nored – Academic advisor, PhD in Interdisciplinary Engineering, Qualifying exam member, PhD dissertation committee member (UAB Engineering, 2017-2022)
 Jordan Nelson – Academic advisor, PhD in EHS, PhD dissertation committee chair (UAB SPH, 2016-2021) [Currently Assistant Professor at UAB SPH]
 Oluwabunmi Dada – Academic advisor, PhD in EHS, PhD dissertation committee chair (UAB SPH, 2016-2021) [Currently Assistant Professor at Murray State University]
 Rupkatha Bardham – Academic advisor, PhD in EHS, PhD dissertation committee member (UAB SPH, 2015-2019) [Currently Assistant Professor at Murray State University]
 Maria Lianou – Academic advisor, PhD in Environmental Engineering, PhD dissertation committee member (Technical University of Crete, 2005-2010) [Currently Research Associate at National Observatory of Athens]

Graduate students

Dawn McKay, 2023, (MPH Fieldwork mentor, CUNY)
 Faith Forde, 2023 (MPH Master's Essay mentor, CUNY)

Pange Salden, 2023, (MPH Fieldwork and Master's Essay mentor, CUNY)
 Abida Kabir, 2022, (MPH Fieldwork and Master's Essay mentor, CUNY) - *Dean's Merit Award for Excellence and Dean's Merit Award for Research*
 Lindiwei Farrow-Harris, 2021, (MPH Fieldwork and Master's Essay mentor, CUNY)
 Adesola Adewale, 2021, (MPH Fieldwork and Master's Essay mentor, CUNY)
 Brooke Rawson, 2021, (Independent study, CUNY, Infectious diseases climatology)
 Gertrude Turinawe Hatanga, 2020, (MPH Fieldwork and Master's Essay mentor, CUNY)
 Priyanshi Patel, 2020, (MPH Fieldwork and Master's Essay mentor, CUNY)
 Colleen Kearns, 2020, (MPH Fieldwork and Master's Essay mentor, CUNY)
 Miranda Hogan, 2020, (MPH Fieldwork and Master's Essay mentor, CUNY)
 Kenneth Velasquez, 2020, (MPH Fieldwork and Master's Essay mentor, CUNY)
 Erin Stolz, 2020, (MPH Fieldwork and Master's Essay mentor, CUNY)
 Karina Castillo, 2019, (CEESP mentor, MPH Fieldwork and Master's Essay mentor, CUNY) - *Dean's Merit Award for Research*
 Apeksha Vora, ongoing, 2019, (MPH Fieldwork and Master's Essay mentor, CUNY) - *Dean's Merit Award for Research*
 Alhaji A Dansani, ongoing, 2019, (MPH Fieldwork mentor, CUNY)
 Sonia Ibelka Aracena, ongoing, 2018, (MPH advisor, Fieldwork mentor, CUNY)
 Jennifer Cristine Grosberger, 2018, (MPH Fieldwork mentor, CUNY)
 Dionibe Some, 2018, (MPH Fieldwork mentor, CUNY)
 Yana Martysevich, 2018, (MPH Fieldwork mentor, CUNY)
 Taksh Shah, 2018, (MPH Fieldwork mentor, CUNY)
 Maria Kyprianidou, 2016, (MS committee member, NKUA)
 Tina Gomez, 2012, (MPH Capstone mentor, UAMS)
 Victor Vargas, 2013, (MS thesis mentor, UAMS)
 Tam Vuong, 2015, (MPH committee member, UAMS)
 Maria Gini, 2005, (MS committee member, NKUA)
 Eleni Sgourina, 2005 – 2006, (MS committee member, AUoA)

Undergraduate students

Jared Ball, 2016, BS (Directed Research Study mentor, UAB)
 Frankie Kimbrell, 2016, BS (Directed Research Study mentor, UAB)
 Stella I. Sheke, 2016, BS (Directed Research Study mentor, UAB)
 Ikiyoulemo Ekperekunmo, 2016, BS (Directed Research Study mentor, UAB)
 Mark Austin, 2015, BS (Directed Research Study mentor, UAB)
 Brianna J. Richey, 2015, BS (Directed Research Study mentor, UAB)
 Praise Tangbe, 2015, BS (Directed Research Study mentor, UAB)

K-12 students

Rachel Masterson, 2021, HS, Dobbs Ferry Science Program (CUNY) – 2022 NASA Earth System Science Award at the WESEF competition
 Frida Bajic, 2020, HS, Dobbs Ferry Science Program (CUNY)
 Alexander Scott-Hansen, 2020, HS, Dobbs Ferry Science Program (CUNY)
 Winner of the 2020 DFHS Science Research Symposium
 Finalist of the 2020 Genius Olympiad International Competition
 Tamara Jones, 2013, HS (AR Commitment Scholars mentor, UAMS)
 Breanna MacElroy, 2012, HS (AR Commitment Scholars mentor, UAMS)

PROFESSIONAL EXPERIENCE

Search Committee Chair (appointed by the Ministry of Development and Infrastructure) for the Director of the Institute for Environmental Research and Sustainable Development at National Observatory of Athens, Greece
The 6th International Electronic Conference on Atmospheric Sciences, 15–30 Oct 2023, Scientific Committee
The 4th International Electronic Conference on Atmospheric Sciences, July 16-31, 2021; Scientific Committee, “Air Quality” session leader
Exposure Modelling and Assessment Advisory Group, Society of Environmental Toxicology and Chemistry, 2015 – now
Nanotechnology Advisory Group, Society of Environmental Toxicology and Chemistry, 2014 – now
American Chemical Society, 1998 – now
ACS Central Arkansas Chapter, Councilor, 2015
Society of Environmental Toxicology and Chemistry, 2003 – now

UNIVERSITY SERVICE

University of Memphis

Undergraduate University Curriculum Council, 2024-
Graduate University Curriculum Council, 2024-

City University of New York

CUNY, COACHE, SPH Liaison, 2022-
Member, Search Committee, SPH Associate Dean of Academic and Student Affairs, 2022
Parliamentarian, SPH Governance Council, 2019-2022
Member, SPH Strategic Planning subtask “Educational excellence”
Chair, CUNY-wide Sexual Misconduct Panel Adjudication Committee, 2020-
Chair, CUNY-wide Sexual Misconduct Panel Appeals Committee, 2020-
Member, Middle States Commission on Higher Education team, Graduate Center, 2020.
Member, SPH, Grade Appeals Committee, 2019-
Lead Faculty, Implementation of Delta Omega Honorary Society at SPH (Leadership and Membership Committee), 2020-
Lead author, SPH, MPH in Environmental and Occupational Health Assessment, 2019-
Chair, SPH Assessment Committee, 2019-
Chair, SPH, Sexual Misconduct Subcommittee, 2019-2020
Member, The Collaborative on Academic Careers in Higher Education, 2019-
Member, Search Committee, Open rank faculty position in Biostatistics, 2019-2020
Member, SPH Faculty-Student Council Steering Committee, 2019-
Evaluator/grader, Comprehensive exam, Doctoral program, 2019
Member, Search Committee, Open rank faculty position in Epidemiology, 2019
Member, SPH, Faculty Student Academic Integrity Committee, 2019-
Member, SPH EOGHS Department Promotion and Tenure Committee, 2018-

University of Alabama at Birmingham

Member, SOPH Educational Policy Committee, 2017
Chair, SOPH EHS Department Promotion and Tenure Committee, 2017
Member, SOPH Promotion and Tenure Committee, 2016
Member, President's Award for Excellence in Teaching Committee, 2015
Member, SOPH Dual Programs Committee, 2015 – now

University of Arkansas for Medical Sciences

Task Leader, Chancellor Executive Cabinet - Academic Senate Retreat, 2013
Member, Faculty Affairs Committee, 2013 – 2015
Member, Exports Control Committee, 2013 – 2015
Member, Intergenerational Day Care Center Committee, 2013 – 2015
Departmental Point-of-Contact, COPH Conference Planning Committee, 2013 – 2015
Member, Academic Senate Executive Committee. 2012 – 2015

Before 2011 (Institut National des Etudes Demographiques, Desert Research Institute, National Observatory of Athens, University of Crete)

Member, Search Committees for ELFE Regional Coordinators, Unité Mixte INED / INSERM/EFS, 2010
Member, Faculty Senate, Desert Research Institute, 2007 – 2009
DRI Open House, 2006
DRI Research Foundation Trip, 2006
General Secretary, Scientific and Advisory Board, Institute for Environmental Research and Sustainable Development, National Observatory of Athens, 2004 – 2005
Member of the Graduate Program Committee and Acting President, Department of Chemistry, University of Crete, 1994 – 1998

MEDIA APPEARANCE AND INTERVIEWS

Fortune: Wildfire smoke could increase your pneumonia risk, experts say. Here's what you need to know to stay healthy, <https://fortune.com/well/2023/07/12/wildfire-smoke-air-pollution-increase-pneumonia-risk-tips-stay-safe-covid/> (released July 12, 2023)

Inside Climate News, Justice: Wildfire Haze Adds To New York's Climate Change Planning Needs, <https://insideclimatenews.org/news/13062023/wildfire-new-yorks-climate-change-planning/> (released June 14, 2023)

WNYC Health Convening: New York City's Enduring Crises, The Impact of Vehicle Emissions and Idling on New Yorkers, Panelist, <https://thegreenespace.org/event/wnyc-health-convening/> (released June 8, 2023)

The City, How to Stay Safe as Hazardous Wildfire Smoke Engulfs New York, <https://www.thecity.nyc/health/2023/6/7/23752771/safety-health-wildfire-smoke> (released June 7, 2023)

The Gothamist, New York City's air quality is improving — but it still isn't healthy enough. <https://gothamist.com/news/new-york-citys-air-quality-is-improving-but-it-still-isnt-healthy-enough> (released February 9, 2022)

University of California, Berkeley Center for Occupational and Environmental Health: Firefighter Respiratory and Cardiovascular Health" Climate Change and Smoke Exposure <https://youtu.be/F6ypHfKWxDc> (released February 8, 2022)

Reuters Health: Female Nurses with Long-Term OR Employment Have Increased Risk of COPD <https://www.medscape.com/viewarticle/960433> (released October 8, 2021)

CUNY TV Simple Science: Climate Change Special <https://tv.cuny.edu/show/simplyscience/PR2010149> (Aired on April 7, 2021)

The Gothamist, NYC Subway Station Air Not Great For Breathing, Study Finds. The PATH Is Even Worse, <https://gothamist.com/news/nyc-subway-air-not-specifically-too-good-study-says> (released February 14, 2021)

The Poynter Institute, Peoples-Stokes' assurances on medical marijuana vaping are too broad, <https://www.politifact.com/factchecks/2019/nov/02/crystal-peoples-stokes/peoples-stokes->

assurances-medical-marijuana-vaping/ (released November 2, 2019)
Policygenious.com, How an e-cigarette crackdown could affect your wallet, (released November 15, 2018)