LAURA C. GREEN, Ph.D., D.A.B.T.

EDUCATION

1975. B.A. in Chemistry, Wellesley College, Wellesley, Massachusetts. Honors included: Phi Beta Kappa, Sigma Xi, American Institute of Chemists Student Award, and Wellesley College Scholar.

1981. Ph.D. from the Department of Nutrition and Food Science (Course 20; currently, the Department of Biological Engineering), Massachusetts Institute of Technology (M.I.T.), Cambridge, Massachusetts. Ph.D. thesis, under Professor Stephen R. Tannenbaum, "Nitrite and Nitrate: Toxicity, Metabolism, and Biosynthesis." Discovered that nitrate is biosynthesized *in vivo* in humans and in rats by a mammalian process. Investigated the toxicology and pharmacokinetics of nitrate and nitrite. Designed and built a novel automated system for the analysis of nitrate and nitrite in biological and environmental media.

1981-1983. Postdoctoral Fellow, M.I.T., Cambridge, Massachusetts. Research directed toward developing *in vivo* dosimeters for carcinogenic chemicals. Studied the covalent modification of hemoglobin and albumin by carcinogens, such as 4-aminobiphenyl. Determined that blood protein adduction was quantitative and sensitive, and therefore of use in assessing human exposures to various classes of carcinogens.

BOARD CERTIFICATION

1988 - Present. Certification in general toxicology — Diplomate of the American Board of Toxicology (D.A.B.T.)

OVERVIEW

Dr. Green is the President of Green Toxicology LLC, and its Senior Toxicologist. She is also a Special Government Employee with U.S. EPA, and a toxicologist, part-time, with the ARM group.

Since the late 1970's, Dr. Green has performed original research, published, and consulted in the areas of food chemistry, chemical carcinogenesis, analytical chemistry, toxicology, pharmacology, epidemiology, health risk assessment, and regulatory policy. In 1978, under contract to the National Academy of Sciences, Committee for a Study of Saccharin and Food Safety Policy, Dr. Green performed one of the first quantitative health risk assessments focused on risk of cancer and food additives. Since then, Dr. Green has directed or otherwise worked on scores of quantitative health risk assessment projects, specializing on chemical, toxicological, and epidemiological aspects. She has expertise in the chemistry and toxicology of various metals,

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particularly mercury and lead; in volatile organic compounds, such as trichloroethylene, vinyl chloride, and benzene; in polycyclic aromatic hydrocarbons; in dioxins, furans, and polychlorinated biphenyl compounds; in perfluorinated alkyl substances; and in diesel engine exhaust. Dr. Green has participated in numerous public meetings and regulatory hearings with regard to air pollutants, water pollutants, and many other aspects of environmental and occupational health and safety. She has evaluated emissions from motor vehicles, power plants, landfills, cement kilns, asphalt plants, refineries, various manufacturing facilities, and many other industrial operations and sources, and has assessed indoor air quality with regard to molds, volatile organic compounds, asbestos, and other substances. Dr. Green has testified as an expert toxicologist in legal matters involving exposures to potentially toxic microorganisms, environmental and occupational chemicals, pharmaceuticals, ethanol, and other substances, as well as in cases involving natural resource damages.

Dr. Green has coauthored some 170 reports and papers, several book chapters, and the book, *In Search of Safety: Chemicals and Cancer Risk*. Dr. Green currently serves on the editorial board of the journal, *Human and Ecological Risk Assessment*, and has served as a peer-reviewer for several other scientific journals, as well as for U.S. EPA, ATSDR, and other agencies.

PROFESSIONAL EXPERIENCE

2016-Present	Special Government Employee, U.S. EPA
2015-Present	President and Senior Toxicologist, Green Toxicology LLC.
2015-Present	Toxicologist, Part-time, ARM Group Inc.
2013-Present	Editorial Board Member*, Journal of Human and Ecological Risk Assessment.*
2013-2014	Vice President for Environmental Health & Toxicology, CDM Smith Inc., Cambridge, MA.
1989-2012	Founder, President, and Senior Scientist, Cambridge Environmental Inc., Cambridge, MA.
1986-2012	Lecturer, Department of Biological Engineering (Course 20), M.I.T.
1985-1989	Vice President for Environmental Health & Toxicology, Meta Systems Inc., Cambridge, MA.
1983-1986	Research Affiliate and Project Coordinator for a five-year grant from the American Cancer Society, Department of Applied Biological Sciences, M.I.T.

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1983-1985	Research Director of the Scientific Conflict Mapping Project, Harvard University School of Public Health.
1975-1981	Research Assistant, Teaching Assistant, and Pre-doctoral Trainee, Department of Nutrition and Food Science, M.I.T.
Summer 1974	Research Chemist, Dow Chemical Company, Wayland, Massachusetts.

PROJECT EXPERIENCE

Consultant to the National Academy of Sciences Committee for a Study on Saccharin and Food Safety Policy. At the request of the National Academy of Sciences Committee for a Study on Saccharin and Food Safety Policy, Dr. Green designed and implemented a risk-benefit analysis for the uses of nitrite as a food additive. Her analysis compared and contrasted the risks of morbidity and mortality from botulism (in the absence of adequate food-preservation) with those associated with the formation of potentially carcinogenic nitrosamines and other N-nitroso-compounds.

Member, U.S. EPA FIFRA Science Advisory Panel, FIFRA. Dr. Green served as an invited member of a federal Science Advisory Panel, convened by U.S. EPA, to evaluate the carcinogenic potential of glyphosate, a non-selective, phosphonomethyl amino acid herbicide.

In a second assignment, Dr. Green served on another Science Advisory Panel, convened by U.S. EPA, to evaluate the toxicity, carcinogenicity, and other aspects of the solvent, carbon tetrachloride.

Senior Toxicologist, Evaluation of the Human Health and Environmental Effects of the Processing of Marble Ore in Vermont. Dr. Green designed and directed the toxicological and community health aspects of an extensive study of the quarrying and processing of marble ore in Florence, Vermont. Among other findings, she discovered that a residual component of the flotation agent used to process the ore caused birth defects in laboratory rats. Using dose-response data from the rat-studies, she formulated guidelines for groundwater and drinking water, and presented her analyses to the State toxicologist. He agreed with her findings, and these guidelines became the first known environmental standards for this chemical, aminoethylethanolamine.

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Senior Scientist, Evaluation of Impacts from Landfills. On numerous projects, Dr. Green has evaluated the risks to health and safety potentially caused by landfill gas and combustion of that gas in flares or engines. She has also assessed health-risks from drinking water contaminated by landfill leachate.

Senior Toxicologist, Multi-Pathway Health and Environmental Risk Assessments of Stack Emissions, Various Locations. Dr. Green has conducted and/or managed multi-pathway risk assessments of emissions from numerous waste-to-energy plants, hazardous waste incinerators, cement kilns, and related sources, including existing or proposed facilities in Boston, Massachusetts; East Bridgewater, Massachusetts; Biddeford, Maine; Harriman, New York; Harrisburg, Pennsylvania; Greencastle, Indiana; and the Setubal Peninsula, Portugal. These assessments endeavor to estimate total exposure to, and consequences of, pollutants released via both ducted and "fugitive" emissions. Air dispersion and deposition models are applied to trace the atmospheric fate of contaminants, and are followed by algorithms to estimate contaminant concentrations in soil, uptake into plants and vegetables, and transfer and accumulation through the food chain into vegetables, fish, meat, dairy products, mother's milk, and other foods.

Senior Scientist, Evaluation of the Health Effects of Particulate Matter in Ambient Air. On several projects, Dr. Green has assessed the epidemiological and toxicological evidence regarding health effects from exposure to inhalable particulate matter (primarily PM_{10} and $PM_{2.5}$). She has presented her findings in testimony before Science Advisory Boards to U.S. EPA and others, at contested permit hearings and community meetings, and in peer-reviewed publications. She has also evaluated the associations between particulate matter and asthma.

Senior Scientist, Evaluation of Asphalt Fume Toxicity and Asphalt Worker Safety. For more than 15 years, Dr. Green has worked with industry associations, union-representatives, and researchers in the U.S. and Europe to assess and improve the safety of asphalt-working and production of hot-mix asphalt. Her work has involved assessing exposures to asphalt fumes, evaluating the feasibility of various investigations, and reviewing the results of numerous toxicological and epidemiologic studies. She also contributed to evaluations by the National Institute for Occupational Safety and Health (NIOSH) with regard to asphalt fume mutagenicity, carcinogenicity, and related health issues. She has extended this work to evaluate ambient air quality, and health-risks, at and near more than one dozen existing or proposed asphalt production facilities.

Senior Scientist, Evaluation of Synthetic Turf Fields. For several municipalities, a college, and other schools, Dr. Green assessed the safety of new and existing

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synthetic turf fields. She designed field studies to measure lead and other metals from synthetic turf-field systems (including crumb rubber-based infills), evaluated laboratory and field data reported by others, and developed guidelines for assessing health-risks to children or others playing on these fields. In response to community concerns, she also evaluated risks from injuries and infections, and assessed general and site-specific issues with regard to run-off from synthetic turf fields.

Senior Scientist, Evaluation of Railroad Worker Safety. Dr. Green has assessed air quality, working conditions, chemical exposures, and possible health-risks posed to railroad workers in many settings. She has evaluated extensive data-sets, toxicological and epidemiologic literature, and other information pertinent to conductors, engineers, brakemen, roundhouse workers, sheet-metal workers, welders, electricians, watchmen, maintenance workers, and general laborers. The exposures of interest have involved diesel engine exhaust, carbon monoxide, herbicides, and volatile organic chemicals and mixtures such as benzene, chlorinated solvents, mineral spirits, and diesel fuel.

Senior Toxicologist, Evaluations of Polychlorinated Biphenyls (PCBs) in Indoor Air. Although banned from essentially all new products, polychlorinated biphenyls (PCBs) are present in some existing building-materials, and so present opportunities for exposure to building occupants and others. On one project, Dr. Green assessed the health-risks to construction workers who had been unknowingly exposed while renovating a building that contained PCBs-contaminated floorboards. In another project, she assessed risks to infants, toddlers, and others at a day-care facility that contained PCBs in indoor air (apparently emanating from PCBs-containing window-caulking).

Senior Scientist, Evaluation of Safety of Metal Working Fluids. Metal working fluids are widely used to cool metal-surfaces during cutting and other machining. Dr. Green assessed the toxicological and microbiological exposures associated with the use of these fluids. She also evaluated the epidemiologic and medical literature regarding cases and clusters of hypersensitivity pneumonitis and other respiratory diseases or symptoms among groups of metal workers.

Senior Scientist, Evaluation of a Cancer Cluster at a Worksite. A seemingly unusual fraction of workers at a large mail-handling facility had been diagnosed with cancers of various types. Dr. Green conducted interviews, reviewed (in association with a physician) medical records and related information, researched and assimilated the relevant scientific and medical literature, and performed statistical analyses. She determined that, based on the size and age-

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structure of the cohort, the observed incidence of cancer was not unexpected. She met with employees and management to present and explain her findings.

Senior Scientist, Evaluation of Artists' Materials. Dr. Green assisted a manufacturer of arts and crafts materials in complying with regulations promulgated by the Consumer Product Safety Commission following passage of the Labeling of Hazardous Art Materials Act. These regulations required that the formulation of any material that might be used in an art or craft project be evaluated for potential chronic hazards to health. Dr. Green developed expected and worst-case exposure scenarios, conducted detailed reviews of the health effects of component chemicals, and rendered opinions about the specific health warnings that should appear on the product. Toxicological reviews conducted early in product development uncovered potential problems that were corrected in a timely manner. In a court case, Dr. Green assisted another manufacturer of art supplies that had been sued by a woman who gave birth to a malformed infant; the plaintiff alleged that she had been exposed on the job to one of the defendant's products and that this product was teratogenic. Dr. Green researched the toxicological and medical literature pertaining to the product components, researched the epidemiology of the birth defect, quantitatively estimated the plaintiff's exposure to the product, and testified in court on these subjects.

Senior Scientist, Evaluation of Cleaning Products. A maker of a natural-product-based cleaner sought advice with regard to the possible carcinogenicity of its main ingredient. Dr. Green researched and analyzed the relevant literature, and determined that the product was safe for its intended uses. She also addressed misunderstandings on the part of others concerned about the product-formulation. Another maker and distributor of cleaning products and sanitizing agents asked Dr. Green to evaluate potential chemical, microbiological, toxicological, and safety issues. She also assisted with regard to issues of labeling and warnings. Dr. Green also evaluated laundry-detergent enzymes with regard to their chemistry, consumer concerns, toxicology, and occupational studies.

Senior Scientist, Evaluation of Emissions from Carpets. Emissions of volatile organic compounds from carpets and related products have been of concern to some consumers and regulators. On several occasions, Dr. Green has analyzed analytical chemical data on emissions generated under various conditions, and assessed the health significance of the findings. She has also critically reviewed the experimental methods used by some investigators, and found these methods to have generated unrepresentative or otherwise unreliable data. She has also made detailed assessments of the health-effects associated with low-level exposures to formaldehyde and related compounds. In projects involving

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emissions from carpets and other household materials, she has assessed claims of "multiple chemical sensitivity" ascribed to exposures to emissions from newly installed materials and other sources.

Member of the Massachusetts Department of Public Health's Medical Review Panel on Formaldehyde-related Claims. Serving on a three-person panel with an immunologist/allergist and an industrial hygienist, Dr. Green advised the Massachusetts Department of Public Health with regard to individual claims of over-exposure to, and symptoms from, formaldehyde that may have been released from urea formaldehyde foam insulation.

REPORTS AND PUBLICATIONS

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