

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

EDUCATION

1981. Massachusetts Institute of Technology, Cambridge, Massachusetts. Ph.D. from the Department of Nutrition and Food Science (currently the Department of Biological Engineering). Ph.D. thesis, "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.

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

BOARD CERTIFICATION:

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

PROFESSIONAL EXPERIENCE AND SERVICE:

1989-Present. Senior Scientist and President, Cambridge Environmental Inc., Cambridge, MA.

Present Editorial Board Member, *Journal of Human and Ecological Risk Assessment*

1986-2012. Lecturer, Department of Biological Engineering, Massachusetts Institute of Technology.

1985-1989. Vice President for Environmental Health and Toxicology, Meta Systems Inc., Cambridge, MA.

1983-1986. Research Affiliate and Project Coordinator for a five-year grant from the American Cancer Society for work in biochemical epidemiology, Department of Applied Biological Sciences, Massachusetts Institute of Technology.

1983-1985. Research Director of the Scientific Conflict Mapping Project, Harvard University School of Public Health. Developed a new method for making scientific and regulatory decisions about toxic and carcinogenic chemicals in the workplace and environment. Co-authored a book entitled, *In Search of Safety: Chemicals and Cancer Risk* (Harvard University Press, 1988).

1978-1985. Consultant in toxicology and risk assessment, self-employed.

1981-1983. Postdoctoral Fellow in Environmental Toxicology, Massachusetts Institute of Technology. Research with Professor Gerald Wogan directed toward developing dosimeters for carcinogenic chemicals. Studied the covalent modification of hemoglobin and albumin by carcinogens. Determined that blood protein adduction was quantitative and sensitive, and therefore of use in assessing actual human exposures.

1975-1981. Research Assistant, Teaching Assistant, and Predoctoral Trainee, Department of Nutrition and Food Science (currently the Division of Toxicology), Massachusetts Institute of Technology.

Summer, 1974. Research Chemist, Dow Chemical Company, Wayland, Massachusetts. Developed a direct oxidative synthesis method for propylene oxide.

PROFESSIONAL ASSOCIATIONS:

American Association for the Advancement of Science
American Chemical Society
Society for Risk Analysis
Society of Toxicology

REPORTS:

Green, L.C., Crouch, E.A.C., and Zemba, S.G. (in press). Cremation, air pollution, and special use permitting: a case study. *Human and Ecological Risk Assessment*.

Palma-Oliveira, J., Zemba, S.G., Ames, M.R., Green, L.C., and Linkov, I. (2012). Uncertainty in multi-pathway risk assessment for combustion facilities. *Human and Ecological Risk Assessment* 18(3):501-516.

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Green, L.C. and Crouch, E.A.C. (2011). Comments on California EPA's background document, "Evidence on the Developmental and Reproductive Toxicity of Sulfur Dioxide." Cambridge Environmental Inc.

Zemba, S.G., Ames, M.R. and Green, L.C. (2011). Modeling and measuring impacts from ash landfilling: Using data to inform regulatory policy. North American Waste-to-Energy Conference (NAWTEC 19), Lancaster, PA, May 16-18.

Green, L.C. Letter. Re: Asthma rate rises sharply in the U.S., Government says. NY Times, May 4, 2011. Available at:
<http://www.nytimes.com/2011/05/13/opinion/lweb13asthma.html>

Zemba, S.G., Ames, M.R., and Green, L.C. (2010). Determining whether landfill gas poses risks to health. In: *Proceedings of the WASTECON 2010 conference*, Solid Waste Association of North America, Boston, MA, August 15-18.

Ames, M.R., Zemba, S.G., and Green, L.C. (2010). Multi-pathway Risk Assessment of Stack Emissions from the SECIL Cement Kilns at Maceira and Pataias. Cambridge Environmental Inc.

Crouch, E.A.C., Green, L.C., and Galanter, J.M. (2009). Technical Comments on U.S. EPA's "Risk and Exposure Assessment to Support the Review of the SO₂ Primary National Ambient Air Quality Standards: Second Draft" (March 2009), Docket No. EPA-HQ-OAR-2007-0352. Available at www.regulations.gov as Attachment 1 in EPA-HQ-OAR-2007-0352-0031.1.

Crouch, E. and Green, L. (2009). A Proposition 65 dose evaluation for DEHP from shoes. Cambridge Environmental Inc.

Crouch, E. and Green, L. (2009). A Proposition 65 risk evaluation of lead in guitar strings with an addendum that addresses risk from ball-ends. Cambridge Environmental Inc.

Armstrong, S.R. and Green, L.C. (2008). MTBE Fact Sheet. Cambridge Environmental Inc.

Crouch, E., Green, L., and Hendrix, S. (2008). A Proposition 65 no-significant-risk evaluation of 1,4-dioxane in assorted consumer products. Cambridge Environmental Inc.

Crouch, E. and Green, L. (2008). A Proposition 65 no-significant-risk evaluation of 1,4-dioxane in dish liquid. Cambridge Environmental Inc.

Adilman, D., Ames, M.R., Armstrong, S.R., Copley, L.G., Green, L.C., Hartzel, R., Holmén, B., Klens-Caprio, J., Lester, R.R., Roy, S.P., Swift, R., Tyler, M., Zeeb, P. and Zemba, S.G. (2008). An assessment of the environmental and public health impacts of Omya's operations in Florence, Vermont: Integrated report. Cambridge Environmental Inc. and Geosyntec Consultants, Inc.

- Crouch, E.A.C. and Green, L.C. (2007). Comment on “Persistent organic pollutants in 9/11 world trade center rescue workers: reduction following detoxification” by James Dahlgren, Marie Cecchini, Harpreet Takhar, and Olaf Paepke [Chemosphere 69/8 (2007) 1320-1325]. *Chemosphere* 69(8):1330-1332.
- Lester, R.R., Green, L.C., and Linkov, I. (2007). Site-specific applications of probabilistic health risk assessment: review of the literature since 2000. *Risk Analysis* 27(3):635-658.
- Ames, M.R., Zemba, S.G., Shifrin, A., Lester, R.R., and Green, L.C. (2007). Risk Assessment for the evaluation of multi-pathway and ecological impacts of emissions from the Harrisburg Materials Energy, Recycling and Recovery Facility, Harrisburg, Pennsylvania. Cambridge Environmental Inc.
- Zemba, S.G., Adilman, D., Ames, M.R., Armstrong, S.R., Copley, L.G., Green, L.C., Klens-Caprio, J., Lester, R.R., Roy, S.P., Shifrin, A., and Zeeb, P. (2007). Final phase I report, Omya Verpol Facility - Florence, Vermont. Cambridge Environmental Inc. and Geosyntec Consultants, Inc.
- Ames, M., Zemba, S.G., and Green, L.G. (2005). Results of an emission and air dispersion modeling study and public health evaluation of the Virginia Paving Company Facility, 5601 Courtney Avenue, Alexandria, Virginia. Cambridge Environmental Inc.
- Green, L.C. (2005). Suggestions for authors of the September 2004 Draft *ATSDR Toxicological Profile for Hydrogen Sulfide*. Cambridge Environmental Inc.
- Green, L.C. and Crouch E.A.C. (2005). Estimating cancer risks from toxic air contaminants. *EM(June)*:23-27.
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- Armstrong, S.R. and Green, L.C. (2004). Chlorinated hydrocarbon solvents. *Clin. Occup. Environ. Med.* 4(3):481-496.
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- Zemba, S.G. and Green, L.C. (2003). Assessment of potential risks to human health and welfare associated with landfill gas emissions from the Martone Sanitary Landfill, Barre, Massachusetts. Cambridge Environmental Inc.
- Green, L.C. and Armstrong, S.R. (2003). Particulate matter in ambient air and mortality: toxicologic perspectives. *Regulatory Toxicology and Pharmacology* 38:326-335.
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- Green, L.C. (2003). Response to “Letter to the Editor”- Eltjo Buringh and Antoon Opperhuizen. *Regulatory Toxicology and Pharmacology* 37(3):412.
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- Green, L.C. and Ames, M.R. (2002). Comments on the *Draft Energy Plan* written by the North Carolina Energy Policy Working Group, September 2002. Cambridge Environmental Inc.
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Bartlett, K.L., Zemba, S.G., Crouch, E.A.C., and Green, L.C. (1999). Health risk assessment for Davenport Commons Development, Boston, MA. Cambridge Environmental Inc.

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Bartlett, K.L., Zemba, S.G., Crouch, E.A.C., and Green, L.C. (1998). Health risk assessment for Phase III Orchard Park Development, Boston, MA. Cambridge Environmental Inc.

Green, L.C. (1998). Comments on the Housatonic River PCB site and threats to human health. Cambridge Environmental Inc.

Zappia, A.M., Lester, R.R., Zemba, S.G., Crouch, E.A.C., and Green, L.C. (1997). Human health risk assessment for BASF Corporation, Third Street, Clifton, NJ. Cambridge Environmental Inc.

Zemba, S.G., Lester, R.R., Bartlett, K.L., Lash, T.L., and Green, L.C. (1996). A health risk assessment for the Nepera Incinerator, Harriman, New York. Cambridge Environmental Inc.

Green, L.C., Armstrong, S.R., and Menear, J.H. (1997). Comments on the *NTP Toxicology and Carcinogenesis Studies of Pyridine in Rats and Mice*. Cambridge Environmental Inc.

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Bartlett, K.L., Zemba, S.G., Crouch, E.A.C., and Green, L.C. (1997). Health risk assessment for Phase II Orchard Park Development, Boston, MA. Cambridge Environmental Inc.

Crouch, E.A.C., Lester, R.R., Lash, T.L., Armstrong, S.R., and Green, L.C. (1997). Health risk assessments prepared *per* the risk assessment reforms under consideration in the U.S. Congress. *Human and Ecological Risk Assessment* 3(5):713-785.

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- Crouch, E., Green, L., Zemba, S., and Lester, R. (1995). Comments to the Science Advisory Board on U.S. EPA's development of human health based and ecologically based exit criteria for the hazardous waste identification project, review draft, March 3, 1995. Cambridge Environmental Inc.
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- Crouch, E.A.C., Lester, R.R., Lash, T.L., Armstrong, S.R., and Green, L.C. (1995). Report to the Commission on Risk Assessment and Risk Management: health risk assessments prepared *per* the risk assessment reforms under consideration in the U.S. Congress. Cambridge Environmental Inc.
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- Green, L.C., Crouch, E.A.C., Armstrong, S.R., and Lester, R.R. (1995). Comments on *Health assessment document for 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) and related compounds: review draft*. Cambridge Environmental Inc.
- Green, L.C., Crouch, E.A.C., Armstrong, S.R., Lash, T.L., and Lester, R.R. (1995). Comments on *Estimating exposure to dioxin-like compounds: review draft*. Cambridge Environmental Inc.
- Green, L.C., Crouch, E.A.C., and Lester, R.R. (1995). The carcinogenic potency of 2,3,7,8-TCDD and similar compounds: *Comments on health assessment document for 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) and related compounds*. Cambridge Environmental Inc.

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