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Curriculum Vitae

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EDUCATION:

B.A. in Zoology with high honors; University of California, Santa Barbara, 1967.

EMPLOYMENT:

1989 - Present: Co-Founder and Research Director, Berkeley Analytical Associates, LLC, Richmond, CA
1975 - 2007: Staff Scientist II, Indoor Environment Department, Environmental Energy Technologies Division, E.O. Lawrence Berkeley National Laboratory, Berkeley, CA. Retired
1974 - 1975: Scientist, Bodega Bay Institute of Pollution Ecology, Berkeley, CA.
1974: Laboratory Supervisor, Marine Biological Consultants, Burlingame, CA.

PROFESSIONAL SOCIETIES AND ACTIVITIES:

Member of Professional Societies: International Society of Indoor Air Quality and Climate; American Society for Testing and Materials, Subcommittee chairman of D22.05 on Indoor Air
Member of Consensus Standards Boards: NSF/UL 440 Joint Committee on Health Based Emissions, Chair of Toxicology Committee; Scientific Certification Systems, SCS-002 LCA Framework and Metrics for Comparing the Environmental Performance and Sustainability of Products, Service and Systems
Member of Technical Committees: Building and Institutional Furniture Manufacturer's Association (BIFMA), Furniture Emissions Standards Subcommittee and Sustainability Standards Subcommittee
Member of Peer-review Committees: EPA/ORD Carpet Study, U.S. EPA Office of Research and Development, 1993; Method for Sampling and Analysis of Indoor Air for Organic Compounds, National Institute for Occupational Safety and Health, 1991

RESEARCH LEADERSHIP:

Group Leader: Pollutant Sources, Dynamics and Chemistry Group, Indoor Environment Department (2000-2003).
Principal Investigator: "Evaluation of UVPCO for Air Cleaning Applications," U.S. Dept of Energy, Completed 2007; "Indoor Air Chemistry: Cleaning Agents, Ozone & Toxic Air Contaminants," LBNL Group Leader, Calif. Environ. Protection Agency, Air Resources Board, Completed 2006 "Indoor Air Quality Assessments of New Energy-Efficient Housing," U.S. Dept. of Energy, Completed 2005; "Vapor-phase Organics in ETS: Dynamics and Exposure," Univ. Calif. Tobacco-Related Disease Research Program, Completed 2002; "Children's Exposure to Traffic-related Emissions," Calif. Environ. Protection Agency, Office of Environmental Health Hazard Assessment, Completed 2002; "Common Indoor Sources of Volatile Organic Compounds: Emission Rates and Techniques for Reducing Consumer Exposures," Calif. Environ. Protection Agency, Air Resources Board, Completed 1999.

PEER-REVIEWED PUBLICATIONS:

- Poppendieck, D.G., L.C. Ng, A.W. Persily, and A.T. Hodgson. 2015. Long term air quality monitoring in a net-zero energy residence designed with low emitting interior products. *Building and Environment* 94: 33-42.
- Chen, W., A.K. Persily, A.T. Hodgson, F.J. Offermann, D. Poppendieck, and K. Kumagai. 2014. Area-specific airflow rates for evaluating the impact of VOC emissions in U.S. single-family homes. *Building and Environment* 71: 204-211.
- Howard-Reed, C., Z. Liu, J. Benning, S. Cox, D. Samarov, D. Leber, A.T. Hodgson, S. Mason, D. Won and J.C. Little. 2011. Diffusion-controlled reference material for volatile organic compound emissions testing: Pilot inter-laboratory study. *Building and Environment* 46: 1504-1511.
- Destailats, H., R.L. Maddalena, B.C. Singer, A.T. Hodgson and T.E. McKone. 2008. Indoor pollutants emitted by office equipment: A review of reported data and information needs. *Atmospheric Environment* 42: 1371-1388.
- Coleman, B.K., H. Destailats, A.T. Hodgson and W.W. Nazaroff. 2008. Ozone consumption and volatile byproduct formation from surface reactions with aircraft cabin materials and clothing fabrics. *Atmospheric Environment*. 42: 642-654.
- Weschler, C.J., A. Wisthaler, S. Cowlin, G. Tamás, P. Støm-Tejsten, A.T. Hodgson, H. Destailats, J. Herrington, J. Zhang and W.W. Nazaroff. 2007. Ozone-initiated chemistry in an occupied simulated aircraft. *Environ. Sci. Technol.* 41: 6177-6184.
- Hodgson, A.T., H. Destailats, D.P. Sullivan and W.J. Fisk. 2007. Performance of ultraviolet photocatalytic oxidation for indoor air cleaning applications. *Indoor Air* 17: 305-316.
- Singer B.C., A.T. Hodgson, T. Hotchi, K.Y. Ming, R.G. Sextro, E.E. Wood and N.J. Brown. 2007. Sorption of organic gases in residential rooms. *Atmospheric Environment* 41: 3251-3265.
- Singer, B.C., B.K. Coleman, H. Destailats, A.T. Hodgson, M.L. Lunden, C.J. Weschler and W.W. Nazaroff. 2006. Indoor secondary pollutants from cleaning product and air freshener use in the presence of ozone. *Atmospheric Environment* 40: 6696-6710.
- Destailats, H., M.M. Lundgren, B.C. Singer, B.K. Coleman, A.T. Hodgson, C.J. Weschler and W.W. Nazaroff. 2006. Indoor secondary pollutants from household cleaning product emissions in the presence of ozone. A bench-scale chamber study. *Environ. Sci. Technol.* 40: 4421-4428.
- Singer, B.C., H. Destailats, A.T. Hodgson and W.W. Nazaroff. 2006. Cleaning products and air fresheners: emissions and resulting concentrations of glycol ethers and terpenoids. *Indoor Air* 16: 179-191.
- Singer, B.C., H. Destailats, A.T. Hodgson, K.L. Revzan and R.G. Sextro. 2005. Indoor sorption of surrogates for sarin and related nerve agents. *Environ. Sci. Technol.* 39: 3203-3214.
- Hodgson, A.T., D.G. Shendell, W.J. Fisk and M.G. Apte. 2004. Comparison of predicted and derived measures of volatile organic compounds inside four new relocatable classrooms. *Indoor Air* 14 (Supplement 8): 135-144.
- Kim, J.J., S. Smorodinsky, M. Lipsett, A.T. Hodgson, B.C. Singer, and B. Ostro. 2004. Traffic-related air pollution near busy roads: the East Bay Children's Respiratory Health Study. *American Journal of Respiratory and Critical Care Medicine* 170: 520-526.
- Singer, B.C., K.L. Revzan, T. Hotchi, A.T. Hodgson, and N.J. Brown. 2004. Sorption of organic gases in a furnished room. *Atmospheric Environment* 38: 2483-2494.

- Sherman, M.H. and A.T. Hodgson. 2004. Formaldehyde as a basis for residential ventilation rates. *Indoor Air* 14: 2-8.
- Singer, B.C., A.T. Hodgson, T. Hotchi and J.J. Kim. 2004. Passive measurement of nitrogen oxides to assess traffic-related pollutant exposure for the East Bay Children's Respiratory Health Study. *Atmospheric Environment* 38: 93-403.
- Singer, B.C., A.T. Hodgson and W.W. Nazaroff. 2003. Gas-phase organics in environmental tobacco smoke: 2. Exposure-relevant emission factors and indirect exposures from habitual smoking. *Atmospheric Environment* 37: 5551-5561.
- Hodgson, A.T., D. Faulkner, D.P. Sullivan, D.L. DiBartolomeo, M.L. Russell and W.J. Fisk. 2003. Effect of outside air ventilation rate on volatile organic compound concentrations in a call center. *Atmospheric Environment* 37: 5517-5527.
- Hodgson, A.T., D. Beal and J.E.R. McIlvaine. 2002. Sources of formaldehyde, other aldehydes and terpenes in a new manufactured house. *Indoor Air* 12: 235-242.
- Zhao, D., J.C. Little and A.T. Hodgson. 2002. Modeling the reversible, diffusive sink effect in response to transient contaminant sources. *Indoor Air* 12: 184-190.
- Singer, B.C., A.T. Hodgson, K.S. Guevarra, E.L. Hawley and W.W. Nazaroff. 2002. Gas-phase organics in environmental tobacco smoke: 1. Effects of smoking rate, ventilation, and furnishing level on emission factors. *Environ. Sci. Technol.* 36: 846-853.
- Cox, S.S., J.C. Little and A.T. Hodgson. 2002. Predicting the emission rate of volatile organic compounds from vinyl flooring. *Environ. Sci. Technol.* 36: 709-714.
- Cox, S.S., A.T. Hodgson and J.C. Little. 2001. Measuring concentrations of volatile organic compounds in vinyl flooring. *J. Air & Waste Manage. Assoc.* 51: 1195-1201.
- Hodgson, A.T., A.F. Rudd, D. Beal and S. Chandra. 2000. Volatile organic compound concentrations and emission rates in new manufactured and site-built houses. *Indoor Air* 10: 178-192.
- Ten Brinke, J., S. Selvin, A.T. Hodgson, W.J. Fisk, M.J. Mendell, C.P. Koshland and J.M. Daisey. 1998. Development of new volatile organic compound (VOC) exposure metrics and their relationship to "sick building syndrome" symptoms. *Indoor Air* 8: 140-152. Recipient of International Academy of Indoor Air Sciences' "Best Paper Award" *Indoor Air* journal 1996-1998.
- Morrison, G.C., W.W. Nazaroff, J. A. Cano-Ruiz, A.T. Hodgson and M.P. Modera. 1998. Indoor air quality impacts of ventilation ducts: Ozone removal and emissions of volatile organic compounds. *J. Air & Waste Manage. Assoc.* 48: 941-952.
- Daisey, J.M., K.R.R. Mahanama and A.T. Hodgson. 1998. Toxic volatile organic compounds in simulated environmental tobacco smoke: Emission factors for exposure assessment. *J. Exposure Analysis and Environmental Epidemiology* 8: 313-334.
- Hodgson, A.T., J.M. Daisey, K.R.R. Mahanama, J. Ten Brinke and L.E. Alevantis. 1996. Use of volatile tracers to determine the contribution of environmental tobacco smoke to concentrations of volatile organic compounds in smoking environments. *Environment International* 22: 295-307.
- Schaeffer, V.H., B.B. Bhooshan, S-B. Chen, J.S. Sonenthal and A.T. Hodgson. 1996. Characterization of volatile organic chemical emissions from carpet cushions. *J. Air & Waste Manage. Assoc.* 46: 813-820.
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- Fischer, M.L., A.J. Bentley, K.A. Dunkin, A.T. Hodgson, W.W. Nazaroff, R.G. Sextro and J.M. Daisey. 1996. Factors affecting indoor air concentrations of volatile organic compounds at a site of subsurface gasoline contamination. *Environ. Sci. Technol.* 30: 2948-2957.
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- Daisey, J.M., A.T. Hodgson, W.J. Fisk, M.J. Mendell and J. Ten Brinke. 1994. Volatile organic compounds in twelve California office buildings: Classes, concentrations and sources. *Atmospheric Environment* 28: 3557-3562.
- Little, J.C., A.T. Hodgson and A.J. Gadgil. 1994. Modeling emissions of volatile organic compounds from new carpets. *Atmospheric Environment* 28: 227-234.
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- Weschler, C.J., A.T. Hodgson and J.D. Wooley. 1992. Indoor chemistry: Ozone, volatile organic compounds, and carpets. *Environ. Sci. Technol.* 26: 2371-2377.
- Hodgson, A.T., K. Garbesi, R.G. Sextro and J.M. Daisey. 1992. Soil-gas contamination and entry of volatile organic compounds into a house near a landfill. *J. Air & Waste Manage. Assoc.* 42: 277-283.
- Hodgson, A.T., J.M. Daisey and R.A. Grot. 1991. Sources and source strengths of volatile organic compounds in a new office building. *J. Air & Waste Manage. Assoc.* 41: 1461-1468.
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- Grot, R.A., A.T. Hodgson, J.M. Daisey and A. Persily. 1991. Indoor air quality evaluation of a new office building. *ASHRAE Journal*, September, pp. 16-25.
- Loiselle, S.A., F.J. Offermann and A.T. Hodgson. 1991. Development of an indoor air sampler for polycyclic aromatic hydrocarbons. *Indoor Air* 2: 191-210.
- Daisey, J.M., A. Gadgil and A.T. Hodgson. 1991. Model estimates of the contributions of environmental tobacco smoke to volatile organic compound exposures in office buildings. *Indoor Air* 1: 37-45.
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- Daisey, J.M. and A.T. Hodgson. 1989. Initial efficiencies of air cleaners for the removal of nitrogen dioxide and volatile organic compounds. *Atmospheric Environment* 23: 1885-1892.
- Hodgson, A.T. and J.R. Girman. "Application of a Multisorbent Sampling Technique for Investigations of Volatile Organic Compounds in Buildings." In: Design and Protocol for Monitoring Indoor Air Quality, ASTM STP 1002, N.L. Nagda and J.P. Harper, Eds., American Society for Testing and Materials, Philadelphia, PA, 1989, pp. 244-256.
- Hodgson, A.T., J. Binenboym and J.R. Girman. "A Multisorbent Sampler for Volatile Organic Compounds in Indoor Air." In: Advances in Air Sampling, Lewis Publishers, Chelsea, MI, 1988, pp. 143-157.

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- Girman, J.R., A.T. Hodgson, A.S. Newton and A.W. Winkes. 1986. Emissions of volatile organic compounds from adhesives with indoor applications. *Environment International* 12: 317-321.
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SELECTED CONFERENCE PROCEEDINGS:

- Bernheim, A., A. Hodgson and A. Persily. "High Performance IAQ Specification for Net Zero Energy Homes." Healthy Buildings America, July 19-22, 2015, Boulder, CO.
- Poppendieck, D., L. Ng, A. Persily and A. Hodgson. "Long Term Air Quality Monitoring in a Net-Zero Energy Residential Test Facility Meeting Low Emission Building Material Specifications." Indoor Air 2014: The 13th International Conference on Indoor Air Quality and Climate, Hong Kong, China.
- Hodgson, A.T., W.Chen, H. Willem and H. Levin. "Building Product VOC Emission Testing and Conformity Assessment Procedures in the U.S." Indoor Air 2011, The 12th International Conference on Indoor Air Quality and Climate, June 5-10, 2011, Austin, TX.
- Offermann, F.J. and A.T. Hodgson. "Emission Rates of Volatile Organic Compounds in New Homes." Indoor Air 2011, The 12th International Conference on Indoor Air Quality and Climate, June 5-10, 2011, Austin, TX.
- Hodgson, A.T., J.S. Zhang, B.Guo, and J. Xu. 2009. "Development and Validation of a Scaling Method for Environmental Chamber Determination of VOC Emissions from Office Furniture." Proceedings Healthy Buildings 2009, 9th International Conference & Exhibition, Sept. 13-17, 2009, Syracuse, NY.
- Zhang, J., M. Mason, A. Hodgson, B. Guo, K. Krebs, A. Barry and B. Peters. 2009. "An Inter-laboratory Comparison Study of the ANSI/BIFMA Standard Test Method M7.1 for Furniture." Proceedings Healthy Buildings 2009, 9th International Conference & Exhibition, Sept. 13-17, 2009, Syracuse, NY.
- Hodgson, A.T., D.P. Sullivan and W.J. Fisk. 2006. "Evaluation of Ultra-Violet Photocatalytic Oxidation for Indoor Air Applications." Proceedings HB 2006, Healthy Buildings Creating a Healthy Indoor Environment for People, June 4-8, 2006. Lisbon, Portugal.
- Levin, H. and A.T. Hodgson. 2006. "VOC Concentrations of Interest in North American Offices and Homes." Proceedings Healthy Buildings 2006, Proceedings HB 2006, Healthy Buildings Creating a Healthy Indoor Environment for People, June 4-8, 2006. Lisbon, Portugal.
- Singer, B.C., A.T. Hodgson, T. Hotchi, K.Y. Ming, R.G. Sextro, E.E. Wood and N.J. Brown. 2005. "Sorption of organic gases in residential bedrooms and bathrooms." Proceedings Indoor Air 2005, The 10th International Conference on Indoor Air Quality and Climate, Sept 4-9, 2005, Beijing, China. LBNL-56787.
- Destailats H., B.C. Singer, B.K. Coleman, M.M. Lunden, A.T. Hodgson, C.J. Weschler and W.W. Nazaroff. 2005. "Secondary pollutants from cleaning products and air fresheners in the presence of ozone."

Proceedings Indoor Air 2005, The 10th International Conference on Indoor Air Quality and Climate, Sept 4-9, 2005, Beijing, China. LBNL-57038.

Yuan, H., J.C. Little, S.S. Cox and A.T. Hodgson. 2005. "A multi-layer model for predicting emissions from structural insulated panels." Proceedings Indoor Air 2005, The 10th International Conference on Indoor Air Quality and Climate, Sept 4-9, 2005, Beijing, China.

Cox, S.S., J.C. Little and A.T. Hodgson. 2005. "Effect of glass transition temperature on volatile emissions from polymer materials." Proceedings Indoor Air 2005, The 10th International Conference on Indoor Air Quality and Climate, Sept 4-9, 2005, Beijing, China.

Apte, M.G., W.J. Fisk, A.T. Hodgson, D.G. Shendell, L.I. Rainer, and M.A. Hoeschele. "Designing building systems to save energy and improve indoor environments: a practical demonstration." Proceedings 2004 ACEEE Summer Study on Energy Efficiency in Buildings, August 22-27, 2004, Pacific Grove, CA. American Council for an Energy Efficient Economy. LBNL-54859.

Little, J.C. and A.T. Hodgson. "Structural insulated panels – Sustainable design incorporating impact on indoor air quality," Proceedings NSF/PATH Housing Research Agenda Workshop, University of Central Florida, Orlando, Florida, February 12-14, 2004. (Non-refereed proceedings)

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Hodgson, A.T., M.G. Apte, D.G. Shendell, D. Beal, J.E.R. McIlvaine. "Implementation of VOC source reduction practices in a manufactured house and in school classrooms." Proceedings Indoor Air 2002, The 9th International Conference on Indoor Air Quality and Climate, Monterey, CA, June 30-July 5, 2002, Vol. 3, pp. 576-581. LBNL-49536.

Apte, M.G., A.T. Hodgson, D.G. Shendell, D.L. DiBartolomeo, T. Hotchi, S. Kumar, S.M. Lee, S.M. Liff, L.I. Rainer, R.C. Schmidt, D.P. Sullivan, R.C. Diamond and W.J. Fisk. "Energy and indoor environmental quality in relocatable classrooms." Proceedings Indoor Air 2002, The 9th International Conference on Indoor Air Quality and Climate, Monterey, CA, June 30-July 5, 2002, Vol. 2, pp. 11-62. LBNL-49581.

Cox, S.S., A.T. Hodgson and J.C. Little. "Effect of ventilation rate on contaminant emissions from diffusion-controlled materials." Proceedings Indoor Air 2002, The 9th International Conference on Indoor Air Quality and Climate, Monterey, CA, June 30-July 5, 2002, Vol. 3, pp. 196-201.

SELECTED RESEARCH REPORTS:

Hodgson, A. A. Bernheim and P.White. "High Performance Indoor Air Quality Specification for Net Zero Energy Homes." 2014. NIST GCR 14-980.

Hodgson, A.T., H. Destailats, T. Hotchi, and W.J. Fisk. "Evaluation of a Combined Ultraviolet Photocatalytic Oxidation (UVPCO) / Chemisorbent Air Cleaner for Indoor Air Applications." Jan 2007. LBNL-62202.

Nazaroff, W.W., B.K. Coleman, H. Destailats, A.T. Hodgson, D-L. Liu, M.L. Lunden, B.C. Singer and C.J. Weschler. "Indoor Air Chemistry: Cleaning Agents, Ozone and Toxic Air Contaminants." Final Report, Contract No. 01-336, California Environmental Protection Agency, Air Resources Board, Research Division, May 2006. U.C. Berkeley.

Hotchi, T., A.T. Hodgson and W.J. Fisk. "Indoor Air Quality Impacts of a Peak Load Shedding Strategy for a Large Retail Building. Jan 2006. LBNL-59293.

- Hodgson, A.T., D.P. Sullivan and W.J. Fisk. "Parametric Evaluation of an Innovative Ultra-Violet Photocatalytic Oxidation (UVPCO) Air Cleaning Technology for Indoor Applications." Oct 2005. LBNL-59074.
- Hodgson, AT, D.P. Sullivan and W.J. Fisk. "Evaluation of Ultra-Violet Photocatalytic Oxidation (UVPCO) for Indoor Air Applications: Conversion of Volatile Organic Compounds at Low Part-per-Billion Concentrations." Sept 2005. LBNL-58936.
- Hodgson, A.T. and D. Beal. "Implementation of Source Reduction Practices for Volatile Organic Compounds in Manufactured House Construction: Pilot Demonstration Project." Feb 2005. LBNL-57041.
- Hodgson, A.T., N. Moyer and D. Beal. "Effect of residential ventilation techniques for hot and humid climates on indoor concentrations and emission rates of volatile organic compounds." Feb 2005. LBNL-57030.
- Hodgson, A.T., S.J. Nabinger and A.K. Persily. "Volatile Organic Compound Concentrations and Emission Rates Measured over One Year in a New Manufactured House." Sept 2004. LBNL-56272.
- Hodgson, A.T. "Volatile organic emissions from structural insulated panel (SIP) materials and implications for indoor air quality." Dec 2003. LBNL-53768.
- Apte, M.G., D. DiBartolomeo, T. Hotchi, A.T. Hodgson, S.M. Lee, S.M. Liff, D.G. Shendell, D.P. Sullivan, W.J. Fisk, and L.I. Rainer. "Simultaneous improvements in relocatable classrooms." ASHRAE IAQ Applications, 4(4): 7-10, Fall 2003. LBNL-54870. (Non-refereed journal)
- Hodgson, A.T. and H. Levin. "Volatile Organic Compounds in Indoor Air: A Review of Concentrations Measured in North America Since 1990." Revised Oct 2003. LBNL-51715.
- Hodgson, A.T. and H. Levin. "Classification of measured indoor volatile organic compounds based on noncancer health and comfort considerations." July 2003. LBNL-53308.
- Singer, B.C., T. Hotchi and A.T. Hodgson. "Air Pollutant Monitoring for the East Bay Children's Respiratory Health Study." Final Report, Agreement No. 00-E0018, California Environmental Protection Agency, Office of Environmental Health Hazard Assessment, Air Toxicology & Epidemiology Section. Nov 2002, LBNL-51707.
- Hodgson, A.T. "Common Indoor Sources of Volatile Organic Compounds: Emission Rates and Techniques for Reducing Consumer Exposures." Final Report, Contract No. 95-302, California Environmental Protection Agency, Air Resources Board, Research Division, January 1999, 457 p.
- Daisey, J.M., K.R.R. Mahanama and A.T. Hodgson. "Toxic Volatile Organic Compounds in Environmental Tobacco Smoke: Emission Factors for Modeling Exposures of California Populations." Final Report, Contract No. A133-186, California Air Resources Board, Research Division, October 1994, 109 p.
- Hodgson, A.T. and J.D. Wooley. "Assessment of Indoor Concentrations, Indoor Sources and Source Emissions of Selected Volatile Organic Compounds." Final Report, Contract No. A933-063, California Air Resources Board, Research Division, March 1991, 179 p.