

LES BLOMBERG

Box 1137, Montpelier, Vermont 05601
802-229-1659

PROFESSIONAL EXPERIENCE

EXECUTIVE DIRECTOR

Noise Pollution Clearinghouse, Montpelier, VT, 1996-present

- Founded a national non-profit clearinghouse dealing with noise pollution and hearing loss issues.
- Created and maintained an extensive noise pollution library.
- Conducted research into noise and its effects.
- Wrote articles and fact sheets for magazines, journals, and web sites.
- Advised consultants, communities, and individuals about noise pollution issues.

MEMBERSHIPS AND AFFILIATIONS

Member, American National Standards Accredited Standards Committee S12, Noise.

- Evaluated, revised, and approved national standards for noise measurement as a voting member of the S12 committee and as members of specific working groups
- Member, ANSI S12 Working Group 15, Measurement and Evaluation of Outdoor Community Noise
- Member ANSI S12 Working Group 38, Noise Labeling In Products
- Member ANSI S12 Working Group 41, Model Community Noise Ordinances
- Member ANSI S12 Working Group 50, Information Technology (IT) Equipment in Classrooms

Member, National Parks Overflights Advisory Group

- Member of a federal government sponsored advisory group to the National Parks Service and Federal Aviation Administration concerning overflights of National Parks.

Past Memberships

- Former Member, Acoustical Society of America (ASA)
- Former Member, Acoustical Society of America Technical Committee on Noise
- Former Member, National Hearing Conservation Association (NHCA)
- Former Member, Institute of Noise Control Engineering (INCE)

PAPERS AND PUBLICATIONS (partial list)

- “Penalties for Noise Violations in the United States.” Institute of Noise Control Engineering, 2018.
- “Noise Ordinance Noise Level Limits, an Update of the EPA’s 1975 Findings.” Institute of Noise Control Engineering, 2018.
- “Types of Regulatory Tools and Their Advantages, Limitations, and Disadvantages in a Model Noise Ordinance Standard.” Acoustical Society of America, 2018.
- “History of the Sound Level Meter in Standards,” invited paper. Acoustical Society of America, 2018.

- “Enforcement of Local Community Noise Ordinances in the United States,” invited paper, Acoustical Society of America, 2017.
- “Noise Related Calls to Police Departments in the United States,” invited paper, Acoustical Society of America, 2017.
- “Lawn Mower Noise,” invited paper, Institute of Noise Control Engineering, 2017.
- “Analysis of 500 Noise Ordinances,” invited paper, Acoustical Society of America, 2016.
- “Preliminary Results of an Analysis of 491 Community Noise Ordinances,” invited paper, Institute of Noise Control Engineering, 2016.
- “The Last Remaining Places of Natural Quiet in the Continental United States,” *ESRI Map Book Vol. 30*, 2015.
- “Noise in the 21st Century,” Acoustical Society of America Lay Language Paper, 2014.
- “Update on Regulations Adding Noise to Electric and Hybrid Vehicles,” invited paper, Acoustical Society of America, 2014.
- “Noise in the 21st Century,” invited paper, Acoustical Society of America, 2014.
- “Regulatory Inertia and Community Noise,” invited paper, Acoustical Society of America, 2014.
- “Natural Quiet: Where to Find It, How to Increase It,” invited paper, Noise in Communities and Natural Areas Workshop, Institute of Noise Control Engineering, 2013.
- “Optimizing Detection of Masked Vehicles,” invited paper, Acoustical Society of America, 2013.
- “Validity of a Temporary Threshold Shift (TTS) Detector for Use in iPods and Other Portable Audio Devices,” National Hearing Conservation Association, 2010.
- “Five Ways to Quiet Your Neighborhood,” published in *One Square Inch of Silence*, 2009.
- “Noise Masking of Vehicles, A Comparison of Gasoline/Electric Hybrids and Conventional Vehicles,” Noise Pollution Clearinghouse, 2008.
- “Wind, Noise, and Energy,” Noise Pollution Clearinghouse for American Wind Energy Association, 2008.
- “What’s the Ear For?” Chapter 47 of *Handbook for Sound Engineers*, 2008.
- “Hearing Damage Related to In-Ear Music Devices and other Consumer Products, invited speaker, “International Consumer Product Health and Safety Organization Symposium, 2007.
- “10 Ways to Quiet Our National Parks,” Acoustical Society of America, 2007.
- “Criteria Levels for Non-Occupational Noise Exposure,” Acoustical Society of America, 2006.
- “Consumers, Products, and Noise: The Economic, Social, and Political Barriers to Reducing Noise in Consumer Products Sold in North America,” Acoustical Society of America, 2006.
- “Opportunities and Progress in Consumer Product Noise Testing and Labeling,” Institute of Noise Control Engineering, 2006.
- “Noise (is) Pollution,” Quiet Zone, 2006.
- “The Nature of Noise,” Quiet Zone, 2006.
- “The State of State Noise Regulations in New England,” Institute of Noise Control Engineering, 2005.
- “Consumer Oriented Measurement of Product Noise,” Institute of Noise Control Engineering, 2005.
- “Acoustical Advocacy,” National Hearing Conservation Association, 2005.
- “The Interest of the General Public for a national Noise Policy in the United States of America,” invited speaker, 8es Journées Annuelles de Santé Publique, 2004.

- “Barriers to Community Input to Noise Policy Decisions,” Institute of Noise Control Engineering, 2004.
- “The Nature of Noise in Society,” Acoustical Society of America, 2004.
- “24 Hours of Noise in a Large City; Problems and Solutions,” Acoustical Society of America, 2004.
- “Why Diesel Trucks Are Quieter than Boats,” Lakeline, 2004.
- “The Future of Peace and Quiet,” Quiet Zone, 2003.
- “The Interest of the Public in Noise Control,” Institute of Noise Control Engineering, 2002.
- “A Punch from Michael Tyson Averaged over an Hour is a Very Long Love Pat: The Problems of Averaging in Noise Measurement,” MIT Seminar, 2001.
- “Noise Ordinances: the Good, the Bad, and the Ugly; An overview of more than 200 existing noise ordinances,” Acoustical Society of America, 2001.
- “Soundscapes, Quiet Zoning, and a Noise Sabbath,” Wisconsin Lakes Partnerships Conference, 2001.
- “Amphitheater Noise, A Community Perspective,” Acoustical Society of America, 2000.
- “Educating the Public about the Effects of Noise Pollution,” Acoustical Society of America, 2000.
- “Noise in the News: What the Media Is and Is Not Covering,” Acoustical Society of America, 2000.
- “Sound Decisions,” New Rules, 1999.
- “Noise, Civility, and Sovereignty,” Noise Pollution Clearinghouse, 1999.

PATENTS

- Number 7,780,609, Temporary Threshold Shift Detector, Issued August 24, 2010, allows users of personal listening devices to determine if they have listened at levels that could damage their hearing.

AWARDS AND RECOGNITIONS

- Finalist, NIOSH, OSHS, and MSHA Hear and Now Challenge, 2016.
- “The Last Remaining Places of Natural Quiet in the Continental United States” was selected as one of the best maps of 2014 by the Environmental Systems Research Institute, *ESRI Map Book Vol. 30*.
- Acoustical Society of America Lay Language Paper, 2014.
- National Hearing Conservation Association Media Award, 2005.

CLIENTS AND CONSULTING

Assisted hundreds of communities, mayors, council members, zoning boards, and police chiefs to understand, interpret, rewrite, and enforce their noise regulations.

- Drafted modifications to noise ordinances.
- Drafted new or complete overhauls of noise regulations.
- Advised communities on appropriate monitoring equipment.

Assisted Vermont towns with understanding, enforcing, and revising noise regulations.

- St. Albans
- Montpelier
- Waitsfield

Developed noise measurement procedures, evaluated testing facilities, and tested consumer product noise levels.

- Consumer Reports
- Quiet Zone (Noise Pollution Clearinghouse publication)

Modeled noise levels from various noise sources.

- Transportation
- Electric power generation
- Resource extraction

Created online libraries of important noise-related documents and answered questions about noise from the general public.

- US EPA
- Noise Pollution Clearinghouse

Partial List of clients:

- US EPA
- Consumer Reports
- American Wind Energy Association
- East Hampton, NY Airport
- Rocky Hill, CT
- State of Vermont
- Sierra Club
- Natural Resources Defense Council

Partial list of proceedings in Vermont in which participated or testified:

- 2017, Vermont Environmental Court, Appeal of Application Number 5W0966-7
- 2016, Vermont Public Service Board Docket #8653
- 2016, Vermont Public Service Board Wind Turbine Noise Rulemaking
- 2015, Vermont State Environmental Court, Docket No. 208-9-07
- 2014, Vermont State Environmental Court, Docket No. 99-7-13 Vtec
- 2014, Vermont State Environmental Court, Docket No. 181-12-13 Vtec
- 2013, District 3 Environmental Commission, Act 250, Application #3W1049
- 2013, Vermont State Environmental Court, Docket No. 159-10-11 Vtec
- 2012, District 7 Environmental Commission, Application #7C1321
- 2012, Vermont Environmental Court, Docket Nos. 122-7-04, 210-9-08 and 136-8-10 Vtec
- 2011, Vermont Public Service Board Docket No. 7628
- 2010, Vermont Public Service Board Docket No. 7156
- 2009, Greensboro, Vermont Zoning Permit, Lakeview Inn

- 2008, Vermont Environmental Court, O'Neil Sand & Gravel, LLC Docket No. 48-2-07 Vtec, Act 250 Application #2S0214-6A
- 2008, Bristol Vermont Zoning Permit, Lathrop Gravel Pit
- 2007, Vermont Environmental Court, Wright Quarry Docket Nos. 156-7-06 Vtec and 190-8-06 Vtec
- 2007, East Calais, Vermont Zoning Permit, Gravel Pit
- 2007, District 5 Environmental Commission, Route 100 Bypass
- 2006, District 5 Environmental Commission, Application #5W1455
- 2005, State Environmental Court, Docket No. 203-11-03 Vtec
- 2005, District 3 Environmental Commission, Act 250 Application #3W0929
- 2004, Norwich, Vermont Zoning Permit, Verizon Wireless Tower
- 2004, Moretown, Vermont Zoning Permit, Quarry
- 2003, District 5 Environmental Commission, Barre Town Police Firing Range
- 2001, District Number 5 Environmental Commission, Bull's Eye Sporting Center and Case Number 5W0743-3
- 2001, Dummerston, Vermont Zoning Permit, Quarry
- 1999, Vermont State Environmental Board, OMYA, Inc. and Foster Brothers Farm, Inc., Land Use Permit #9A0107-2-EB.
- 1999, Vermont State Environmental Board, Barre Granite Quarries, LLC, Application #7C1079-EB

EDUCATION

SEMINAR CADNA A EXPERT (Noise Model)

SEMINAR CADNA A ADVANCED

SEMINAR CADNA A BASIC

Datakustic, 2013

INTEGRATED NOISE MODEL TRAINING COURSE (FAA Noise Model)

Harris, Miller, Miller, and Hanson, 2010

COMMUNITY NOISE ENFORCEMENT CERTIFICATION COURSE

Rutgers Noise Technical Assistance Center, 1997

MASTER OF ARTS in Environmental Philosophy, 1993

Colorado State University, Fort Collins, Colorado

BACHELOR OF SCIENCE in Applied Mathematics, minor in Physics, 1989

BACHELOR OF ARTS in Philosophy, with honors, 1989

University of Minnesota, Duluth, Minnesota