

ABOUT THE PRESENTERS

Thomas Anderson, CCP, Cx Associates, LLC

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Thomas Anderson is the founding principal of Cx Associates and has over twenty-five years of experience in mechanical engineering design and building commissioning. He uses his extensive expertise in HVAC system energy efficiency and controls to ensure the buildings he commissions perform efficiently and effectively.

Tom's experience includes over two million square feet of commissioned buildings. He commissioned Vermont's first LEED certified Green Building and is currently involved with commissioning twenty-four green buildings consisting of over two million square feet valued at \$300 million. Tom has completed the rigorous training and exam administered by the Building Commissioning Association (BCA) and is a Certified Commissioning Provider. He now serves on the BCA's Certification Committee.

Gabe Arnold, LC, CEM, IESNA, Efficiency Vermont

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Gabe Arnold began his career as a lighting designer/electrical engineer for a mechanical and electrical engineering firm in Denver, Colorado in 1996. As a project engineer, he was responsible for the design of lighting systems for offices, schools, institutions, and outdoor environments. In 2000, Gabe returned to his home state of Vermont to work with Vermont Energy Investment Corp. (VEIC) as they launched Efficiency Vermont, the state's energy-efficiency utility.

In his work as Business Market Coordinator with Efficiency Vermont, Gabe leads the effort to promote energy-efficient lighting to Vermont's commercial and industrial market. Gabe is Lighting Certified by the National Council for Qualifications of Lighting Professionals and also a Certified Energy Manager by the Association of Energy Engineers. Gabe has given over 50 workshops to consultants, designers, contractors, and lighting suppliers in the field of energy-efficient lighting.

Eric Belliveau, Optimal Energy, Inc.

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Eric Belliveau became a Principal and Senior Associate at Optimal Energy in 2000, after consulting for the firm in 1999. He applies his vast and varied business experience to evaluating private enterprises marketing energy efficiency and renewable supply; and providing implementation support to publicly-funded programs. Eric currently specializes in commercial and industrial program management support and retail energy service business research, development, and planning.

Mark Biedron, LEED AP, Sustainable Growth Technologies, LLC

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Mark Biedron has 30 years of experience in the field of environmentally safe products, starting in 1975 as the Vice-President of Con-Lux Coatings, Inc, which specialized in low VOC paints and coatings. In 1997, he founded Solid Wood Construction, LLC using the principals of green building in conjunction with salvaged and recycled materials. Together with his wife, in 2000 Mark founded The Willow School—a new independent, private, non-profit day school in Gladstone, New Jersey. The school uses the principles of sustainability and sense of place as “integrating concepts” for curriculum, community outreach, and campus ecology. The Willow School’s first academic building received the United States Green Building Council LEED® Gold Certification, making it the first private educational institution in the United States and the second educational institution of any type, public or private, to receive this prestigious award. In 2004, Mark started Sustainable Growth Technologies, a green building and design consulting company helping businesses, educational institutions, and individuals design and implement strategies and systems that reflect the principles of sustainability and place using holistic and integrated processes. He is a member of The United States Green Building Council and a Trustee of The New Jersey Conservation Foundation, of University of Vermont’s Rubenstein School of Environmental and Natural Resources, and of The Cloud Institute for Sustainability Education in New York City.

Logan Brown, Efficiency Vermont

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Logan Brown is a project manager with Efficiency Vermont working with commercial and residential projects. He has extensive experience in energy analysis as well as in detection and remediation of health and safety issues in residential buildings. His work with the Champlain Valley Office of Economic Opportunity Weatherization Program included over 400 projects with energy audits and building improvement specifications. In addition, this work provided direct installation experience with shell insulation and air sealing. Logan’s experience also includes residential rehabilitation as well as solar energy system design, installation, and monitoring and analysis.

Jennifer Chiodo, P.E., LEED AP, Cx Associates, LLC

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Jennifer Chiodo is a professional electrical engineer with over 25 years of experience in energy-efficient building design and operations. As a Principal of Cx Associates, Jennifer focuses on increasing the understanding and use of building commissioning services while actively supporting improved sustainability in Cx Associates’ projects. As a consulting engineer, Jennifer designed systems for buildings as diverse as Space Ship Earth at EPCOT, high-rise office buildings, Stockton Women’s Prison, the Moscone Convention Center expansion and several research facilities. While at Vermont Energy Investment Corporation, Jennifer created and led the Business Energy Services division at Efficiency Vermont.

Rob deKieffer, Boulder Design Alliance
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Rob deKieffer is the managing partner of Boulder Design Alliance, which is devoted to improving the energy efficiency of buildings through smart design. This includes implementation of new field standards, test procedures and installation techniques in a cost effective manner. Rob has years of experience at the DOE national laboratory level. He was the executive director of a large non-profit Weatherization corporation, and he currently provides consulting services for builders in all aspects of building science. Recent activities include working on the development of the Colorado Home Performance with ENERGY STAR/EPA program for existing housing.

Kevin Doering, Esq., Vermont Department of Health
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Kevin Doering has been chief of the Environmental Health Program at the Vermont Department of Health since 2004. There, he oversees the management of six environmental health programs, including asthma, indoor air in schools, private drinking water, radon, asbestos and childhood lead prevention. Kevin has also served as the Director of Technical Services at the Vermont Agency of Transportation. His educational background includes a B.S. in Earth and Atmospheric Sciences from Rutgers University, and a J.D. from Pace University of Law with concentrations in Environmental Law and International Law. Kevin has experience as an Environmental/Trial Attorney for the Maine Department of Transportation. He has also worked for the Maine Department of Environmental Protection and the US Environmental Protection Agency.

Don Eppelheimer, Trane Company
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Don Eppelheimer has been involved in the development and support of HVAC systems for Trane since 1972. As senior principal applications engineer, his areas of expertise are variable air volume systems and comfort cooling, direct expansion systems piping and controls, chiller selection and control, chiller plant design and control, psychometrics, personal comfort, indoor air quality, and cold air distribution. He developed computer software for water piping systems, refrigerant piping systems, and chiller and ice storage life cycle cost. Internationally, he is a known resource for design and control of thermal storage systems, ice and chilled water, hybrid and district cooling systems.

Don is a member of the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) and has been involved in activities which include TG/TB, TC 8.2, TC 9.1, TC 9.8, Handbook committee, 1996 ASHRAE Handbook "Systems and Equipment," Handbook committee chair, ASHRAE Publishing council, Technical Activities committee - TAC Section 6, and Journal and Insights committee.

Don graduated from the Michigan State University in 1972 with a degree in chemical engineering. When Don is not thinking chilled water, he and his wife Linda are most likely rafting chilled water, or enjoying their favorite pastime...ornithology.

Richard Faesy, Vermont Energy Investment Corporation
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Richard Faesy works as part of the Planning and Evaluation Team at Vermont Energy Investment Corporation in Burlington, Vermont. He specializes in residential buildings and technology, with a focus on new construction, green building, home energy ratings and energy-efficiency financing. He is actively involved with clients in New York, Massachusetts, Vermont, the U.S. EPA and U.S. Green Building Council. Prior to 2000, he was responsible for the administrative and developmental functions of Energy Rated Homes of Vermont and Vermont's Energy Mortgage (EM) Programs since their inception in 1986. He has been active nationally in many Home Energy Rating System (HERS)/EM efforts including starting and managing the Northeast HERS Alliance, and working with the Department of Energy (DOE), the EPA, Energy Rated Homes of America, the HERS Council, the National Collaborative on HERS and EEMs and other initiatives. He has also been involved with numerous energy policy efforts including the adoption of Vermont's first Energy Code, development of a Vermont residential mechanical ventilation standard, and development of the Vermont Builds Greener rating system. Richard was featured in a national Dateline/NBC story on energy efficiency in 2001 and was also awarded RESNET's Lifetime Achievement Award.

Jeffrey Gephart, Efficiency Vermont - Vermont ENERGY STAR® Homes
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Jeff Gephart is a certified advanced energy auditor and is president and co-founder of Vermontwise Energy Services of Rochester, VT. Under contract to Efficiency Vermont, Jeff and his firm are responsible for many of the day-to-day implementation services performed within Efficiency Vermont's Vermont ENERGY STAR® Homes service.

Jeff works with builders and developers building ENERGY STAR® qualified homes as well as with those building in the co-marketed Vermont Builds Greener/LEED for Homes pilot jointly sponsored by Building for Social Responsibility and the U.S. Green building Council.

He has over fourteen years of hands-on experience in residential construction working on everything from site work, foundations, framing, siding, and roofing to estimating and sales.

Henry Gifford, Gifford Fuel Saving Inc.
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Henry Gifford's decades of experience as a New York City apartment house owner and heating system contractor taught him about the problems and challenges of buildings and mechanical systems. But Henry also understands the theory behind how things work, so now he designs new mechanical systems or fixes for existing systems that are cheap enough for owners to want them, simple enough to get installed and stay installed as specified, and that work well enough to make everyone comfortable while requiring a minimum of maintenance and energy.

Henry's work includes drastically reducing fuel use in hundreds of apartment houses in New York City and elsewhere, training contractors and building owners, and writing for *Heating, Piping, Air Conditioning Engineering*; *Boiler Engineering News*; and *Home Energy Magazine*.

Henry works closely with Chris Benedict, R. A., on the design of new apartment houses in New York City that use less than 20% of the heating and hot water making energy an average building uses while costing zero extra to build, and also works for building owners supervising construction of new buildings and renovations of existing buildings.

Paul Grover, MS, Kilawatt Partners
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Paul Grover is president of Kilawatt® Partners in Shelburne, which provides and licenses Kilawatt® System services. The Kilawatt® System addresses the operational efficiency of businesses (conservation) and provides zero-year paybacks with no capital investment. In his previous business, Infraspection Institute®, Paul created the training and certification programs, standards and software that established the profession of commercial and industrial infrared thermography.

Bret Hamilton, CEM, Efficiency Vermont
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Bret Hamilton is a Project Manager with Efficiency Vermont. He specializes in investigating the unanticipated dynamics of building energy systems, and the problems that result when things don't work the way they are supposed to. Bret works to make buildings healthy and energy efficient, and to reduce the cost of energy for commercial and residential clients throughout Vermont. Bret also provides technical support to the Renewable Energy Resource Center and the Vermont Solar and Small Wind Incentives Program. As an educator, he develops and conducts energy efficiency, renewable energy, and building science workshops for builders, architects, engineers, and the general public. Bret is a Certified Energy Manager with the Association of Energy Engineers.

Jan Harris, MBA, LEED AP, Project Manager, Vermont Energy Investment Corporation
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Jan Harris is on the Planning and Evaluation Team with Vermont Energy Investment Corporation. Recently, Jan has managed projects including the costs and benefits of greening school construction in Massachusetts, evaluation of a green building program on Cape Cod and a study evaluating the energy efficiency potential and current industry status of heat pump water heaters in the US for the Natural Resources Defense Council. All included a summary of greenhouse gas reduction implications. Formerly, Jan was a seasoned building professional with more than ten years experience in construction management, real estate development, energy conservation and implementation of renewable technologies. He is a LEED® accredited professional, a licensed Massachusetts State Construction Supervisor, and a certified Washington State Energy Code Inspector. He has also been involved in the financing and business support of young, environmentally friendly, socially responsible companies while working for Commons Capital venture capital, and for Investors Circle, a socially responsible group of angel investors in Boston. Currently, Jan serves on the board of the Vermont Green Building Network, and as a commissioner for the Burlington Electric Department, a municipal utility.

Skip Hayden, Advanced Combustion Technologies
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Skip Hayden is Senior Research Scientist of the Advanced Combustion Technologies Laboratory in Ottawa, Canada. For more than 25 years, he has been responsible for conceiving and conducting R&D to improve the energy efficiency and reduce the emissions (including greenhouse gases) of residential combustion systems, including furnaces, boilers, water heaters, woodstoves and fireplaces, and integrated systems. He has written technical standards to determine the performance of existing equipment and has developed numerous new high efficiency technologies for a wide range of applications, fired by gas, oil or wood. In carrying out his activities, he works closely with manufacturers, utilities,

standards organizations and government policy and program developers. In addition, he is Technical Champion and leader of the major industrial combustion program at the laboratory.

Skip is a member of over 20 national and international technical and standards committees relating to the efficient use of energy. He is President of Affordable Comfort Inc., past Chair of the Federal Buildings Energy R&D Program, and past Director of the Source Division of the Air and Waste Management Association. Skip is the author of 5 books, over 200 technical papers and numerous technical guides for industry and consumers relating to the clean, efficient utilization of combustion systems.

Alison Hollingsworth, LEED AP, Efficiency Vermont

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Alison Hollingsworth is a Project Manager for the Vermont Energy Investment Corporation and Efficiency Vermont's Business Energy Services. Her work focuses on new construction and major renovation projects and she has broad experience analyzing energy savings and life cycle costs of high performance design with modeling software. She also works to promote energy and non-energy benefits of integrated design and green building technology.

Carol Jones, IALD, LC, Battelle Pacific Northwest National Laboratory

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Carol Jones works with Federal and state government agencies, market transformation organizations and private sector partners towards dual goals of lighting quality and energy efficiency. To that end, she is the Project Manager for the Light Right Consortium, which is a group that investigates and provides education about the relationship between high-quality energy-efficient lighting and worker productivity. In the years prior to Light Right, she contributed to the revision of the ASHRAE/IES Standard 90.1-1999 (1990-1999) and shared in the honor of receiving the 1999 Taylor Technical Talent Award from the Illuminating Engineering Society of North America for a paper on that topic. Carol also supports the U.S. Department of Energy's Federal Energy Management Program with respect to lighting in federal buildings.

Carol has been committed to the progress of energy efficiency in the lighting industry through intensive professional association work. She is the current chair of the IESNA Quality of the Visual Environment Committee. She sits on the Board of Directors for the National Council on Qualifications for the Lighting Professions and is the past chair of the energy committees for both the IESNA and the International Association of Lighting Designers. Carol is Lighting Certified through the NCQLP.

Carol has been with Battelle Pacific Northwest National Laboratory since 1994. Prior to joining the laboratory, she was an architectural lighting designer/project director with Horton Lees Lighting Design, Inc. in New York City (1989-1994). She is located far away from her laboratory colleagues in a Battelle office in Lexington, MA.

Rick Karg, R.J. Karg Associates

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Rick Karg was trained as an economist, was a building contractor for ten years, and is now the president of R.J. Karg Associates, energy management consultants. He has been working with low-income weatherization programs and electric and gas utilities for twenty years as an educator and consultant. Rick is a member of the ASHRAE, and in 1997 he published *Let the Gas Flow: A Marketing, Sales, and Equipment Handbook* for the Natural Gas Industry. He is also the author of ZipTest Pro™ building diagnostics software for the Texas Instruments TI-86 calculator.

Jonathan Kleinman, CEM, LEED AP, Optimal Energy, Inc.

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Jonathan Kleinman has over 12 years of strategic planning, management, and technical experience in a range of disciplines, with five years of work experience in energy efficiency and green buildings. As a Certified Energy Manager, he has conducted hundreds of energy efficiency evaluations on commercial, institutional, and industrial facilities, reviewing project plans and specifications, assessing individual or comprehensive measures, working with architecture & engineering firms and contractors, and communicating the project benefits to customers. At Optimal Energy, Inc., Jonathan now assists in the design and implementation of energy efficiency and green building services and initiatives in Vermont, Connecticut, New York State, Massachusetts, Canada, and China. He is a former high school teacher and enjoys developing and providing training sessions on energy and environmental issues.

Richard Kornbluth, BPI, EnTherm Inc.

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Richard Kornbluth was born in Paterson, New Jersey, in 1942. He attended public schools and graduated from Rutgers University in 1964 with a BA in Philosophy. After graduating, he served for two years in the Peace Corps in Malawi, Africa, teaching secondary school physics, biology and chemistry. Upon returning from the Peace Corps in 1966, he attended New York University, pursuing graduate studies in philosophy. He took a middle school teaching position in the Syracuse, New York, public school system in the fall of 1967 and taught until 1970, when he enrolled in a PhD program in Biochemistry in Syracuse University. In 1977, Dick became partners with several other people in a retrofit insulation contracting company in Syracuse. In 1980, he started EnTherm Inc. with one of the partners from the previous company. EnTherm is a two-time recipient of the New York State Research and Development Authority (NYSERDA) award for "Outstanding Achievement in Home Performance Contracting." In 2005, Dick was awarded the Building Performance Institute's award for "Outstanding Achievement in Building Performance." He also serves on the boards of the Building Performance Contractors Association of New York State, Affordable Comfort, Inc. and the Building Performance Institute.

Benjamin Koyle, Technical Training Specialist, LIGHTPOINT, OSRAM SYLVANIA

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Ben Koyle is the technical training specialist for OSRAM SYLVANIA's LIGHTPOINT training facility. He is responsible for training internal and external customers in classroom-based courses offered at the LIGHTPOINT facility. Currently, he is developing OSRAM SYLVANIA's on-line courses, which focus on the science of light, system technology & applications, and lighting applications, which will be presented live to customers across the United States and Canada.

Ben started his lighting career at Cal Poly, Pomona by taking a number of lighting classes towards his Bachelor of Science degree in Electrical Engineering. He graduated from Rensselaer Polytechnic Institute's Lighting Research Center (LRC) with a Master of Science in Lighting. He began his lighting career at Lutron Electronics and worked as an electrical engineer in quality and new product development for the Home Systems division for five and a half years.

This past fall, Ben taught an illuminating engineering course at The University of New Hampshire, Manchester.

Russell P. Leslie, FIES AIA LC, Lighting Research Center
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Russell Leslie is a practicing architect, Professor of Architecture at Rensselaer Polytechnic Institute, and Associate Director of the Lighting Research Center (LRC), the world's largest multi-disciplinary center for lighting research, education and technology transfer. Co-author of the proposal which established the LRC, Russell is responsible for program development and operation of the LRC's \$6.0 million dollar annual research and education operation. He teaches and conducts research in architecture, lighting, daylighting, and energy efficiency. He is project architect for over one hundred buildings, has authored numerous research reports, books, and articles on lighting, daylight, architecture, and energy, including the award-winning Lighting Pattern Book for Home and The Outdoor Lighting Pattern Book. Russell developed and directed the National Lighting Product Information Program and has been the Feltman Chair in Lighting at Cooper Union. He has served as Director of the Illuminating Engineering Society of North America and as Chair of the Society for Building Science Educators. He is a Rensselaer Distinguished Teaching Fellow and a Fellow of the Illuminating Engineering Society. He has won two Society for Technical Communications international awards, the Governor's Award for Energy Excellence, and the AIA School Medal. Russell holds degrees from Brown University in psychology, Rhode Island College in teaching, and Rensselaer in architecture.

Keith Levenson, Efficiency Vermont
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Keith Levenson has been a Project Manager with Vermont Energy Investment Corporation for seven years. He specializes in building envelope issues, especially in single and multifamily residential buildings. Keith also provides technical support to the Efficiency Vermont Schools Team, and is currently working with students at Thetford Academy to evaluate energy usage at the school. Keith worked previously as a carpenter, a timber framer, and as a weatherization contractor and says he has seen the good, the bad and the ugly in a wide spectrum of buildings.

John Madden, JR Madden & Co, LTD
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John Madden is owner of a mechanical contracting company based in Georgia, Vermont and he has over 40 years of experience in the field. He is a Licensed Master Plumber, BOCA certified Plumbing Inspector, and a graduate of NEFI, holding the NORA "Gold" certificate for oil burning equipment. He is accredited by ACCA as designer of Forced Warm Air systems for residential and light commercial applications, and is IBR accredited as designer of hydronic heating systems.

John is a founding member of the Vermont Licensed Plumbers Association and is recognized by the State of Vermont as a Continuing Education Instructor, providing the education and credits necessary for license renewal. His courses include Carbon Monoxide Detection, Flue Gas Venting, Fuel Systems Piping, Basic Hydronic Heating, Radiant Hydronics, Low Pressure Steam, and Potable Water Distribution Systems.

Timothy M. Maker, Biomass Energy Resource Center
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Tim Maker has been the Executive Director of the Energy Resource Center since it was established in 2001. He is nationally recognized as a leading expert in heating schools with automated wood-chip systems. Tim has served as project manager for ten schools that have installed or are installing wood-fired heating plants in Vermont, Maine, and Montana. He has also developed wood energy systems in community and public housing settings.

Tim is the author of Wood-Chip Heating Systems: A Guide for Institutional and Commercial Biomass Installations, and co-author of Heating Communities with Renewable Fuels: The Municipal Guide to Biomass District Energy, a joint publication of the US Department of Energy and Natural Resources Canada.

Before joining BEREC, for 15 years Tim was principal of EEA Biomass, a consulting firm focusing on wood energy projects. He holds a B.S. degree in Engineering Physics from Cornell University.

Ray McGowan, National Fenestration Rating Council
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Ray McGowan is the Technical Services Manager at the National Fenestration Rating Council. His current position includes being the technical liaison for the NFRC to many fenestration trade and code organizations, inspecting fenestration-testing laboratories, implementing NFRC code, administering fenestration research contracts, and administering a US DOE cooperative agreement. Ray has worked as a consultant to the ENERGY STAR buildings and products programs (including fenestration systems), and has marketed commercial HVAC equipment at the Baltimore Aircoil Company. Ray has worked at the Constellation and Trigen utility companies, and at Northrop Grumman-Newport News Naval Shipbuilding. He has a BS in Mechanical Engineering from the University of Maryland and an MBA in Finance from Loyola College of Maryland. Ray has spoken at ASHRAE and NIBS-BETEC, and at numerous ENERGY STAR partner, and fenestration technical meetings.

Bill McKibben
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Bill McKibben is the author of ten books dealing with the natural and the human environment. His first, The End of Nature, was also the first book for a general audience about global warming. It was excerpted in the New Yorker, and has since appeared in 22 languages. His other books include The Age of Missing Information, Enough, and, most recently, Wandering Home.

Bill is a scholar in residence at Middlebury College, a former staff writer for The New Yorker, a regular contributor to House and Garden Magazine on environmental homes, winner of the Lannan Prize in Non-Fiction Writing and recipient of the Guggenheim and Lyndhurst Fellowship Awards. Bill lives with his family in Ripton, Vermont in an ENERGY STAR Home.

James J. MULLOWNEY, Vermont Gas Systems

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James "J." MULLOWNEY has held various management positions at Vermont Gas Systems for the past 15 years. He is currently Manager of Purchasing & Facilities. He has investigated numerous carbon monoxide incidents for Vermont Gas and has presented gas certification training courses to hundreds of students throughout Vermont for the past 10 years.

He holds a mechanical engineering degree from Rutgers University and a master's degree in administration from St. Michael's College.

Bob Ponzini, OSRAM SYLVANIA

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Bob Ponzini is a graduate of Merrimack College with a Bachelor of Science degree in electrical engineering. He has spent the past 17 years working in the lighting field for OSRAM SYLVANIA in capacities including new product development, manufacturing engineering, applications engineering, product management, and commercial engineering. In his present position as the Northeast area commercial engineer, Bob is a product specialist providing product and technical support, training, and applications support to New England area luminaire manufacturers, manufacturers agencies, lighting designers, architects, engineers, ESCo's, and end users. His responsibilities include introducing new lighting products to the local lighting specifier community and getting those new products specified on new construction jobs. Bob is also an active member of IESNA.

Erik Rasmussen, Bacharach, Inc

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Erik Rasmussen has a long history and extensive background in the HVAC industry, having been an independent service contractor and manager for over 15 years. Erik completed training and certification in the HVAC fields of oil burners, gas burners, air conditioning concepts, duct design and heat gain and loss calculations.

He has facilitated the Carbon Monoxide & Combustion Safety Seminar for thousands of people all over North America. Erik co-authored the book Carbon Monoxide, a Clear and Present Danger and has written technical articles for a variety of trade publications. His classes are certified and/or approved by the Carbon Monoxide Safety Association, HVAC Excellence, North American Technical Excellence, a variety of professional associations and some local and state licensing authorities. Erik is an integral part of the Train the Trainer program offered by Bacharach.

Cathy Reynolds, Efficiency Vermont
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Cathy Reynolds works as a Project Manager for Efficiency Vermont. As a Southern Vermont based energy expert, she works with builders and design teams to integrate efficiency into commercial and multi-family building and retrofit projects. Cathy's more than 20 years of experience in residential, commercial and multi-family energy efficiency and construction make her a valuable asset to any design team. She is famous for showing up on job sites with both a foam gun and a blower door to ensure that buildings test tight and work as designed. She also does school-based education workshops with the Vermont Energy Education Program using the popular "Energy Bike" generator.

Michael Rogers, GreenHomes America
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Mike Rogers is Senior Vice President for Business Development with GreenHomes America, the leading home performance contracting company in the country. While with the U.S. Environmental Protection Agency, Mike was instrumental in developing Home Performance with ENERGY STAR. As a consultant to EPA, he has spent the past five years promoting Home Performance around the country, working with states, utilities, and contractors. Mike has degrees in engineering and business and grew up working in a family contracting business. He lives in Burlington in a 1920s era home that has been renovated to exceed current ENERGY STAR standards for new construction.

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Peter Romaniello began his career as a theatrical lighting designer in New York City. He took his artistic visions to the world of architectural lighting design, and created the Lighting By Design department at Connecticut Lighting Centers. In 1998, Peter founded his own lighting design company, Conceptual Lighting, LLC. He is one of the first 150 people to be nationally certified by the National Council on Qualifications for the Lighting Professions. Peter has designed lighting systems for over 500 residences in the northeast. His designs may also be seen at many restaurants, churches and retail stores.

From 1995 to 2001, Peter has designed and managed the holiday lighting project for Holiday in the Park, in Hartford's Bushnell Park. He is a three-time recipient of the Connecticut Home Builders Association Award for Best Lighting, and has received IIDA sectional design awards. He serves as the Regional Vice-President of the of the Illuminating Engineering Society, has taught many seminars for organizations including the National Kitchen and Bath Association and the IES, and is a guest professor at the both the University of New Haven and Fairfield University.

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William B. Rose is a research architect and instructor at the University of Illinois at Urbana-Champaign. Most of his research is on water and its effects on buildings. In 2003, he became the first architect to receive the annual ASHRAE Technical Achievement Award. He consults with historic buildings and museums, including Independence Hall, Unity Temple, and the Guggenheim Museum, and is the author of the 2005 book Water in Buildings: An Architect's Guide to Moisture and Mold.

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Marc Rosenbaum uses an integrated systems design approach to help people create buildings and communities which connect us to the natural world, and support both personal and planetary health. He brings this vision, experience and commitment to a collaborative design process, with the goal of profoundly understanding the interconnections between people, place, and systems that generate the best solution for each unique project. Design practiced at its highest level goes beyond efficiency and conservation to create places that regenerate and nurture the natural world and all of its inhabitants.

Realizing that the barriers to high performance buildings and communities are neither technical nor economic, his work scope has expanded to assist clients design the process that is necessary to create these high performance projects.

His work has been recognized nationally by ASHRAE, AIA, EEBA, and NESEA.

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Dr. Lisa Skumatz is an economist and the Principal of Skumatz Economic Research Associates (SERA). SERA was established in 1990 and is a research and consulting firm with offices in Boulder and Seattle. Lisa has been involved in evaluating energy issues since 1975.

Lisa's energy research has focused in four main areas: non-energy benefits; program evaluation and attribution; measure retention; and detailed survey and market research analysis. She has completed evaluation, policy, NEB, and survey projects for utilities across the nation from New England to California, as well as internationally in New Zealand, Japan, and elsewhere. In addition to detailed attribution and process evaluation work, she has worked for many years to measure "Hard to Measure" impacts, including education and outreach and especially her extensive work in non-energy benefits.

Her work is widely published and cited. Lisa has presented her work at many energy conferences over the last 20 years, including every ACEEE starting in 1986, the Evaluation Conference, AESP, and Affordable Comfort. Lisa's undergraduate degree is in economics from the University of Wisconsin – Madison, and her Ph.D. in Economics is from The Johns Hopkins University in Baltimore. She is a member of the Association of Energy Service Professionals and serves on several non-profit and association boards.

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John Snell is president of Snell Infrared a company that provides training and support to thermographers worldwide. He first used thermography twenty-five years ago to inspect a 3-story Victorian house in Randolph, Vermont and still is amazed by the power of the technology for work in buildings and other applications.

Snell Infrared works with all infrared camera suppliers yet is independent of product sales and endorsements. John is widely published and active in a number of professional capacities, including serving on the standards committees of ASTM, ASNT, and ISO, among others.

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James M. Stockman opened the first exclusive lighting design firm in Northern New England. During those twenty-five years his studio has worked on many types of projects. The studio specializes in day lighting, commercial, industrial, merchandising, residential, permitting, lecturer on all phases of lighting and expert witness. James has many award winning projects. Some notable ones are the following: The Maine Audubon Environmental Education Center in Falmouth Maine, awarded a Sustainable Design Award; The Thorne-Segandorth Art Gallery at Keene State College, awarded the IESNA Guth Award; The Society for the Preservation of New Hampshire Forests, awarded the first Gold 2.1 LEEDS certified project in New England.

In addition, James has been a member of the Illuminating Engineering Society of North America since 1969. Some recent projects in Vermont include Johnson State College Library, The Kellogg-Hubbard Library, The Hoehl Welcome Center at St. Michael's College, and the new lighting for Main Street Montpelier.

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John Straube, Ph. D., is a faculty member in the Department of Civil Engineering and the School of Architecture at the University of Waterloo, where he teaches courses in structural design, material science and building science to both disciplines. He has been deeply involved in the areas of building enclosure design, moisture physics, and whole building performance as a consultant, researcher, and educator. Energy-efficient, healthy, durable and sustainable building designs are a general goal of his research, which is often supported by advanced computer simulation or full-scale natural exposure performance monitoring. Past projects have included driving rain measurement and control, pressure moderation, ventilation drying, insulation strategies, alternative building materials, vapor barriers, mold growth, and crawlspace performance.

He has broad experience in the building industry, having been involved in the design, construction, repair and restoration of buildings in Canada, the United States, Europe, Asia, and the Caribbean. His building science expertise has been applied to moldy roofs, failed masonry, leaky EIFS cladding, wet basements, rotting crawlspaces and attics, historical retrofits, and litigation support for buildings as diverse as commercial office towers, manufactured housing, and sustainable strawbale homes.

John has consulted to many major building product manufacturers, government agencies (CMHC, NRC/IRC, UN, NRCAN, DOE, EPA), and a range of design professionals and building owners. He is on the leading edge of understanding moisture and energy-related building performance as well as the measurement and testing procedures of buildings and their components.

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Buck Taylor is a former HVAC program administrator for Northeast Utilities (NU), where he served 8 years designing and administering residential new construction and HVAC programs for Connecticut Light and Power, Western Massachusetts Electric and provided support for programming at Public Service of New Hampshire. Buck was responsible for NU's successful GeoExchange program, and designed and implemented a comprehensive residential HVAC advanced-diagnostics based tune-up and retrofit program in response to transmission and distribution constraints in southwestern Connecticut during 2002 and 2003.

He provides training to HVAC technicians on the use of various advanced diagnostic tools used in performance testing and commissioning of HVAC systems, including the Honeywell Service Assistant. Recent training activities include HVAC technician training in New York, Massachusetts, Connecticut and Texas.

Buck currently serves as a technical consultant for the EPA's residential and commercial HVAC programs. He also serves as consultant, and field trainer for the Massachusetts COOL SMART residential HVAC program, NYSERDA's unitary HVAC Advanced Diagnostics program, Connecticut's Residential and Small Business HVAC tune-up program and participates in NATE's new ENERGY EFFICIENCY technician certification. In addition, he is a member of ACCA, and is working with ACCA on a Quality Contractor and Installation specification.

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Paul Zabriskie is General Manager of Home Performance Partners, a BPI certified home performance contracting company based in Barre. He is also the Director of the Weatherization Program at Central Vermont Community Action. While new to Building Science with two years in residential services, Paul works with a team of 16 whole-house professionals with decades of experience in cost-justified energy efficiency renovations. The group provides comprehensive diagnostics, construction management and installation in over 300 homes each year. Prior to weatherization and home performance contracting Paul participated in the start-up of several local businesses: Living Technologies, an international ecological design and construction company; the Intervale Compost Project; the Intervale Farm and Intervale Foundation.

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