

Curriculum Vitae

MYRON KATZ, Ph.D.

Energy, Moisture & Building Science Consultant 504-866-1243 home/office
Building Science Innovators, LLC 504-343-1243 cell phone
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New Orleans, Louisiana 70118 Myron.Katz@EnergyRater.com

Education

1976 University of California at Berkeley Ph.D. Mathematics
1970 Louisiana State University B.S. Mathematics major; Physics minor
1986 Loyola University and Tulane University Ed.Cert. Secondary Education Certification
for State of Louisiana

Energy and Building Science Certifications

1998 State of Louisiana Certified Louisiana Energy Rater
2000 State of Florida Certified Florida Energy Rater
2002 Indoor Air Quality Association Certified Indoor Environmentalist
2003 Certified Lighting Efficiency Professional Association of Energy Engineers
2005 Oak Ridge National Laboratories Completed Training on WUFI 3.3
1-Dimensional, Heat and Moisture Flow Analysis software for the scientific analysis of Building Envelopes
2007&8 SEI & La Clean Tech Network Solar Energy Installer Certification
2009 Residential Energy Services Network Certified Energy Rater Trainer

Additional Training

1985 Uptown Professional Real Estate School Real Estate Agent

Professional Experience

Recent Clients 2008 – 2014:

Pharmacy & Cyclotron addition to a major New Orleans Hospital
MarForRes 400,000 sq ft new commercial construction
conversion of warehouse to movie studio
80,000 sq ft residential/office building renovation
Borders Books renovation of funeral home to bookstore
Renovation of Mansion in Garden District

University Faculty

1991 to present Tulane University, University College, Adjunct Instructor
1988-1990 Delgado Community College, Instructor of Computer Science
1978-1981 University of New Orleans, Assistant Professor of Mathematics
1976-1978 Arizona State University, Assistant Professor of Mathematics

Energy and Building Science

2004 to present Director of Research for Building Science Innovators, LLC
Passive Solar Dehumidifying Roof/Cathedralized Insulation System
Standard of Sustainability for Homes
New Orleans Energy Policy Task Force
First Principles of Energy Conservation
Inverted Demand Compliant Construction
Consulting firm to residential & commercial construction
2000 to 2007 **Energy Consultant** to Department of Energy /Louisiana Department of
Natural Resources, Research Project NO. PVE 29-01-12, administered
through Louisiana Tech University to test HVAC duct leakage and propose
remediation methods
1997 to 2004 **Energy/Environmental Consultant** for Wisznia Associates AIA, New
Orleans, Louisiana

- Consult on building science measures that will help prevent and control moisture and mold
- Provide energy efficiency protocols for residential and commercial buildings
- Advise on EPA EnergyStar program

- 1983 to present **Freelance Energy and Moisture Consultant**
- Recommend building science practices to prevent and control moisture and mold
 - Provide energy efficiency protocols for residential and commercial buildings
 - Advise on EPA EnergyStar program
 - Provide diagnostic reports on mold growth to insulation manufacturers, insurance companies, law firms, architects, engineers and real-estate relocation services corporations.
- 1986 – 1988 **Energy Consultant for Utility Regulation Group**, Louisiana Attorney General's Office, New Orleans, Louisiana
- Analyzed electric utility construction planning decisions and rate structures
 - Specialist and Expert Witness on Nuclear Power Plant construction decisions
- 1996 to present **Technical Adviser**, SnowWhiteRoofers, Inc., New Orleans, Louisiana

Computer Science

- 1991-1993 **Programmer/Analyst**, Applications Development Corporation, Metairie, Louisiana
- 1990 to present **Independent Computer Consultant**

Proficient in :

- 3DStudio, AutoCAD, AutoLisp, C, C++
- Web-page development and administration
- JavaScript

Awards

Special Merit Award for Steering the Professional Development of Certified Louisiana Home Energy Raters, Louisiana Department of Natural Resources, 2001

Professional Associations

- Member of Standards Committee, Residential Energy Services Network (RESNET), 2010
- Member, Residential Energy Services Network, 2000 - 2010
- Member, ASHRAE, 2006
- Board Member, [The Green Project](#) of New Orleans, 2006 - 2012
- President, [National Energy Raters Association](#), 2003 - 2005
- Vice President, National Energy Raters Association, 2002
- Board Member, National Energy Raters Association, 2001-present
- Member, Indoor Air Quality Association
- Member, Green Builders Education Committee, Louisiana Chapter of A.I.A
- Member, Louisiana Chapter of American Institute of Architects (A.I.A)
- EPA Greenlights Ally
- DOE EnergyStar Ally
- Member, Geothermal Heat Pump Consortium
- Rebuild America Business Partner
- Founder, [Alliance for Affordable Energy](#) of New Orleans, 1985

Basic Scientific Research and Patents

- Designed passive roof dehumidification and insulation system (patent application in progress)
- Designed first computerized tomography scanner: *Method of Obtaining a Uniquely Determined Cross-sectional Reconstruction from X-ray Projections*, **United States Patent**, #4128877, December 5, 1978
- Contributed to an improved understanding of scanning electron micrographs and scanning transmission electron microscopes

Publications, Presentations, Advising

Katz, Myron: Customer Lowered Electricity Price, pitch presentation to www.ScienceCanChangeTheWorld.org, semi-final competition, April 12, 2017, GreenTown Labs, Cambridge MA.

Katz, Myron: MOTION BY BUILDING SCIENCE INNOVATORS, LLC TO PERFORM INTEGRATED RESOURCE PLANNING (IRP) BY MARKET BASED ACQUISITION AND CORRECT ASSUMPTIONS AND CONDITIONS NEEDED FOR STATE-OF-THE-ART IRP FOR ENERGENCY NEW ORLEANS (ENO), February 3, 2017, DOCKET NO. UD-17-01, City of New Orleans, Utility Committee.

Katz, Myron: Inverted Demand Compliant Construction, a Key to a Renewable Energy Future; invited talk at Energy & Environment Building Association, national conference, September, 2014.

Katz, Myron; Witriol, Norman; Troy, Richard; Derickson, Russell; Fenrick, Steve; Holtz, Michael; **PV Systems with Energy Storage Devices (ESD)**, March 2014.

Katz, Myron; Fenrick, Steve, **Inverted Demand Compliant Construction**, Louisiana Joint Engineering Society Conference, Jan 2014.

Katz, Myron, **You're Hot Because You're Not Wearing Underwear OR First Principles of Energy Conservation**, Louisiana Joint Engineering Society Conference, Jan 2013

Katz, Myron, Christophor Faust & Norman Witriol, [Energy Independence via Conservation and Renewables: the New Orleans Example](#) *Washington Times*, Nov, 2008

Katz, Myron, Christophor Faust & Norman Witriol, [The Demand-Side Utility](#), New Orleans City Council, Feb 2008.

Katz, Myron, Norman Witriol, Daniel Weiner, Wade Byrd, Philip Farey, Pres Kabakoff, [A Center for Excellence in the Built Environment](#), New Orleans City Council, January 2008.

Katz, Myron, Norman Witriol, Pres Kabakoff, Christophor Faust et.al., [Report of the New Orleans Energy Policy Task Force](#), New Orleans City Council, Oct 2007.

Katz, Myron, Christophor Faust & Norman Witriol, [Designing The Standard of Sustainability for Homes](#), Louisiana Joint Engineering Society Conference, Jan 2007.

Katz, Myron & Christophor Faust, [The Standard of Sustainability](#), resolution, ordinance & motion, New Orleans City Council, Nov 2006.

Katz, Myron: Cathedralized Attics: www.EnergyRater.com/CathedralizedAttic . January, 2006.

Katz, Myron, Witriol, Norman, and Erinjeri, Jinson: *Generalized Subtraction Correction Algorithm*, **American Society for Testing and Materials**, Journal of Testing and Materials, Nov. 2004, Vol 32, No. 6.

Witriol, Norman, Erinjeri, Jinson and Katz, Myron: **Testing HVAC Duct Leakage in Existing Residential Buildings in North Louisiana**, Report Prepared for Louisiana Department of Natural Resources by Trenchless Technology Center, Louisiana TechUniversity, 2003.

Katz, Myron: *Exposing Myths about Energy and Environment*, **Times Picayune Editorial**, written at the request of the New Orleans Times Picayune to commemorate Earth Day, April 25, 1991.

Katz, Myron and Rachal, Diane: **A Proposal for Least Cost Utility Planning Legislation**. Submitted to Louisiana Senate and House of Representatives and passed as study resolutions, 1987.

Katz, Myron: **An Analysis of Theodore Barry & Associates Audit into the Prudence of Construction of Waterford 3**. Report submitted to the Louisiana Public Service Commission, 1986.

Weisberg, Leon and Katz, Myron: [Cerebral Computed Tomography - A Text Atlas](#), with Leon Weisberg, M.D., Saunders, 1978; second edition, 1984.

Groesch, Gary and Katz, Myron: *Energy Systems and National Security*, **Proceedings of the 5th Biannual Symposium**, University of New Orleans and University of Innsbruck, 1984.

Katz, Myron: *Rigorous Error Bounds for Medically Feasible Computerized Tomography*, **IEEE Transactions on Nuclear Science**, Vol. NS-26, No. 2, April, 1979.

Katz, Myron: *Questions of Uniqueness and Resolution in Reconstruction from Projections*, [Lecture Notes in Biomathematics](#), Vol. 26, Simon Levine, Ed., Springer-Verlag, New York, 1978.

Katz, Myron: *Rigorous Error Bounds for Medically Feasible Computerized Tomography*, **Proceedings of the Society for Industrial and Applied Mathematics Fall Meeting**, November 1978.

Spence, John and Katz, Myron: *Thickness Periodicity of Dynamical Electron Lattice Images*, **Proceedings of the American Crystallographic Association**, 1978

Short Articles Written for the National Energy Raters of Louisiana

- *Inputting a Two Speed AC unit into RemRate Energy Rating Software*, March 2001
- *Easy inputs for much more Accurate Subtraction Corrections*, March 2001
- *Radiant Barrier Roundtable Summary*, May 2001
- *Inputting Lighting Efficiency Improvements in REM/Rate*, September 2001
- *Installing Gas Water Heaters for Energy Efficient Homes with a Heat Pump*, June 2002
- *Generalized Subtraction Correction Method for Obtaining Duct Leakage in a Home*, June 2002

Other Professional and Public Service Activities

Democratic Nominee for Congress, Louisiana's 1st District, July 9, 2010.

Toxic Mold Wages War in Real Estate Market, interview given to **Times Picayune**, December 13, 2003.

It Pays to Make a Home Energy Efficient, interview given to **Times Picayune**, March 2, 2001

Surveys Can Increase Energy Efficiency, interview given to **Times Picayune**, September 25, 1999

Exposing Myths about Energy and Environment, **Times Picayune**, April 25, 1991. Editorial written to commemorate Earth Day at the request of the **Times Picayune's** editorial staff

A Proposal for Least Cost Utility Planning Legislation, 1987, two study resolutions written for the Louisiana legislature by Myron Katz and Diana Rachal.

Analysis of Theodore Barry & Associates Audit into the Prudence of Construction of Waterford 3,

Expert legal testimony given to the Louisiana Public Service Commission, 1986.

Led the grass-roots effort to get the national Sierra Club to adopt Global Warming as a national priority, 1986.

Co-Founded the Alliance for Affordable Energy, 1985.

Co-led the successful campaign to "Get NOPSI Back", 1985. To regain regulatory control for the City Council of its electric and gas utilities.

Co-led the unsuccessful campaign to "Get NOPSI Back", 1983. To regain regulatory control for the City Council of its electric and gas utilities.

Recent Presentations

- *You're Hot Because You're Not Wearing Underwear OR First Principles of Energy Conservation*, 17th Joint Engineering Society Conference, Louisiana Engineering Society, Jan 24, 2013.
- *Superior House & Duct Leakage Testing*, RESNET Conference, Feb 2009.
- *The Demand-Side Utility*, New Orleans City Council, Feb 2008.
- *The Standard of Sustainability*, Joint Engineering Society Conference, Jan 2007
- *Generalized Subtraction Correction Algorithm*, RESNET Conference, Feb 27, 2006, San Antonio, Tx.
- *Cathedralized Attics*, presented at the Joint Engineering Society Conference, Lafayette, La Jan 27, 2006.
- *How to Measure Duct Leakage Using the Generalized Subtraction Correction Algorithm*. Workshop presented to the Louisiana Energy Raters, January and February, 2004.
- *Home Energy Rebate Option (HERO) And The Use of Energy Raters To Increase Your Income and Provide Better Homes To Your Customers*. Continuing education seminar accredited by American Institute of Architects Health, Safety & Welfare Division, Home Builders Association, State of Louisiana Licensing Board for Contractors. 14 classes given during 2000 and 2001.
- *Radiant Barrier Roundtable*, Panelist, May 2001, Louisiana Energy Raters Association