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EDUCATION

1975-78	Harvard Law School	J.D. <i>cum laude</i>
1971-73; 74-75	Middlebury College	B.A. <i>summa cum laude</i> , Atwood Prize for History & Salutatorian

PROFESSIONAL HISTORY

2005-present Professor of Law & Director,
Institute for Energy and the Environment
Vermont Law School
South Royalton, Vermont

Board of Directors, August 2006 - present
American Council for an Energy Efficient Economy

Board of Directors, August 2006 – present
Electric Power Research Institute

Advisory Council 2003- July 2006
Electric Power Research Institute

1999 – 2005 Chairman
Vermont Public Service Board (*See Attachment A*)
112 State Street
Montpelier, Vermont

Chair (2003-2005)
Committee on Energy Resources and the Environment
National Association of Regulatory Utility Commissioners

Director (2003-2005)
National Association of Regulatory Utility Commissioners

Director (2002-2004)
Electricity Innovation Institute

President (2001-2002)
New England Conference of Public Utility Commissioners

1995-1999 General Counsel, Senior Vice President & Partner
Riser Management Systems, L.P. (*See Attachment B*)
Burlington, Vermont

1992~2005 Adjunct Professor / Lecturer
Vermont Law School (Courses '92, '93, '97; Lectures '95,'96,'05)
South Royalton, Vermont

1988-1995 General Counsel
Vermont Public Service Board

1984-1988 Communications Counsel
Vermont Public Service Board

1979-1984 Attorney: Appellate Litigation
U. S. Environmental Protection Agency, Office of General Counsel
401 M Street, S.W., Washington D.C.

1978-1979 Law Clerk, Honorable Catherine Kelly
District of Columbia Court of Appeals
Judiciary Square, Washington D.C.

HONORS

2003: John F. Kennedy School of Government
Innovations in American Government Award
to Vermont Public Service Board and "Efficiency Vermont"
(One of 5 awards selected from 1,500 nominees:
\$100,000 grant to publicize and replicate the program).

1982: *Bronze Medal*: "For outstanding service to the protection of human health
and the environment in development and implementation of regulations
governing the incineration of hazardous wastes." U.S. EPA

SELECTED SIGNIFICANT DECISIONS

See Attachment C

SELECTED PUBLICATIONS

See Attachment D

SELECTED PRESENTATIONS

See Attachment E

SPECIAL POSITIONS & MEMBERSHIPS

See Attachment F-1 / F-2

BAR ADMISSIONS

Vermont (1984-present).
District of Columbia Court of Appeals (1979 -1985), currently inactive status
United States Court of Appeals for the Third Circuit (1983), currently inactive status.

As Chairman of Vermont's utility regulatory commission, I was responsible for the terms, conditions of service and environmental aspects of more than \$ 1.1 billion in annual utility expenses. The core of this work was a complex litigation docket, involving well over a hundred contested-cases each year. I managed an annual budget of over \$2.6 million and oversaw a staff of 26 Hearing Officers, lawyers, economists, engineers, environmental specialists and support staff. I was also responsible for more than a dozen contracts, including professional service contracts, accounting and auditing contracts for several million dollars of utility 'universal service' funds, and up to \$17.5 million per year for acquisition and delivery of energy efficiency resources.

My primary duties at the Board were:

- 1) to conduct trial-like hearings, pursuant to the Vermont Rules of Civil Procedure and of Evidence (lightly modified by the Board's procedural rules),
- 2) to act as an appellate judge, reviewing the trial-like decisions of the Hearing Officers through consideration of the record, briefs filed by parties, and oral argument, and
- 3) to manage the 26 FTE personnel and ca. 100 litigants in the PSB 'court system' so that a hundred or more cases per year were resolved efficiently, predictably, and fairly.

My secondary duties included:

- 1) exercise of the Board's rulemaking authority,
- 2) responses to legislative inquiries and requests for testimony,
- 3) oversight of the Board's administrative needs, including the Clerk's office, exempt and classified personnel, budgeting and fiscal control and,
- 4) representing Vermont's interests before regional bodies and Federal agencies.

Significant achievements in Vermont's utility world during this time included:

1. Lowering the burden of electricity costs for Vermont residents and businesses:
Vermont had 2d-highest electric rates in the seven north-eastern states in 1999 and improved to having the lowest such rates by mid-2005. The burden of Commercial & Industrial electric costs went down from 1.9% of Gross State Product to less than 1.6%. Residential electric bills dropped from 3.9% of disposable personal income to 3.3%.
2. Keeping pollution extraordinarily low:
Carbon, sulfur, mercury and particulate emissions from electricity generation for Vermont are at lowest levels (absolute and per-capita) of all U.S. states.
3. Launching and sustaining a state-wide energy-efficiency program recognized for excellence:

The Kennedy School awarded \$100,000 to Efficiency Vermont in 2003 as one of the five best governmental programs in the United States. Savings are over \$6 million per year, and rising.

4. Requiring an independent engineering assessment of Vermont Yankee Nuclear Power Station, leading to unprecedented Nuclear Regulatory Commission evidentiary hearing and investigation of power-uprate. News media called it a “near-miracle” that all parties praised the Board decision.

5. Rejecting offers to buy the Vermont Yankee Nuclear Power Station until the price rose from \$8 million to \$180 million, with a stable power purchase contract. The effect is to save Vermonters 4% per year on their electricity bills for twenty years.

6. Ending the prospects of imminent bankruptcy, which had stressed Vermont’s electric utilities from 1998 to 2001.

9. Deciding cases swiftly, but with the best appellate record in fifty years.
Reduced open dockets from 175 in 1999 to 79 in 2005 despite increased filings.
Of eighteen cases appealed, the Vermont Supreme Court remanded or reversed only one.

10. Reducing telecommunication charges to Vermonters by 20% – saving Vermonters almost \$200 million (\$30 million in 2001 and \$40 million for each of the next four years).

11 Increasing the proportion of Vermonters with the option to buy high-speed telecom and cable-broadband services from virtually zero in 1999 to more than 75% of Vermonters by 2004. This was despite Adelphia Cable’s nationwide bankruptcy and Verizon’s national DSL deployment freeze.

12. Helping win major matters before Federal agencies, such as:

Better tests of market-power control for wholesale electric markets.
Governance rules for New England’s Regional Transmission Organization.
Obtaining federal funds of \$ 23.1 million per year for Vermont telecom services.
Stopping the merger of the New England electricity system into the New York Transmission Organization.

13. The Public Service Board came in under-budget for 6 years in a row (averaging 4 - 5% below an annual budget of \$2.3 to \$2.6 million).

ATTACHMENT B: RISER MANAGEMENT SYSTEMS

From 1995 to 1999 I was a partner in Riser Management Systems, L.P., a telecommunications engineering and consulting firm specializing in meeting the needs of Class A commercial office buildings and their tenants.

In those years, my partners and I built our Vermont-based company from four staff to 31 employees, while achieving an eight-fold increase in overall revenues and a twenty-fold increase in recurring revenues.

My management responsibilities included company-wide strategic planning, legal review of all contracts and corporate documents, and approval of all business issues and plans.

My work also involved revenue and cost projections, evaluations of employees' consulting performance, balancing work-force capabilities with job commitments, and coordinating hiring and expansion decisions with my partners.

I also had direct management responsibility for Riser's Consulting Division.

This involved coordination, scheduling and quality control for the consulting work of fifteen engineers, lawyers and financial analysts.

Most importantly, it meant making sure that the critical business needs of more than 100 clients were clearly understood and then satisfied with speed, efficiency and accuracy.

There is no room for delay when 600 telecom lines are needed "now" to secure an anchor tenant for a half-vacant office building.

When a new 450 unit residential tower expects tenants in two months and will have its walls open for only a three-week period during its construction schedule, responsiveness and reliability are vital.

One of my management duties was making sure that Riser consistently met such challenges.

ATTACHMENT C: SELECTED SIGNIFICANT DECISIONS

1. *National Association of Metal Finishers v. E.P.A.*, 719 F.2d 624 (3d Cir. 1983).
Brief and argument re removal of most toxic heavy metals from waste water across United States.
2. *In re. Central Vermont Public Service Corp.*, Docket No. 5132; 83 P.U.R. 4th 532 (Vt. P.S.B. May 15, 1987). Disallowing cost-overruns for Seabrook nuclear plant. Drafted Board decision.
3. *In re. Least-Cost Investments, Energy Efficiency, Conservation, and Management of Demand for Energy*, Docket No. 5270, 1990 WL 666762 (Vt. P.S.B. April 16, 1990).
Requiring integrated resource plans and utility funded energy efficiency. Hearing Officer.
6. *In re. Tariff Filing of Green Mountain Power Corp.*, Docket No. 6107, 207 P.U.R. 4th 1 (Vt. P.S.B. Jan. 23, 2001), available at <http://www.state.vt.us/psb/orders/2001/files/6107final.pdf>.
Relief from potential bankruptcy, allocation of imprudent costs, restraints on unregulated affiliates, and ratepayer protection against unjust enrichment. Chairman.
7. *In re. Vermont Yankee Nuclear Power Corp. re: proposed sale of Vermont Yankee Nuclear Power Station*, Docket No. 6300, 207 P.U.R. 4th 292 (Vt. P.S.B. Feb. 14, 2001), available at <http://www.state.vt.us/psb/orders/2001/files/6300fnl.pdf>. Chairman.
Denial of AmerGen Energy Company's bid to purchase Vermont Yankee nuclear power plant.
8. *In re. Energy Efficiency Plan Re: Phase II*, Docket No. 5980, 196 P.U.R. 4th 476 (Vt. P.S.B. Sept. 30, 1999), available at <http://www.state.vt.us/psb/orders/document/5980phase2fnl.pdf>
Order creating Energy Efficiency Utility for Vermont. Chairman
9. *In re. Department of Public Service's Request to Reduce the Amount to be Collected Via the Energy Efficiency Charge in the Year 2003*, Docket No. 6777, 222 P.U.R. 4th 521 (Vt. P.S.B. Dec. 30, 2002) (Dworkin, dissenting), available at <http://www.state.vt.us/psb/orders/2002/files/6777BoardOrderandDissent.pdf>.
Dissent from Order reducing size of energy efficiency program for year 2003. Chairman
10. *In re. Entergy Nuclear Vermont Yankee, LLC*, Docket No. 6812, 232 P.U.R. 4th 219 (Vt. P.S.B. March 15, 2004), available at <http://www.state.vt.us/psb/orders/2004/files/6812fnl.pdf>.
Order conditionally approving upgrade of Vermont Yankee nuclear plant from 540 to 650 MW. Chairman
13. *In re. Vermont Electric Power Company, Inc. and Green Mountain Power Corporation*, Docket No. 6860, 2005 WL 351182 (Vt. P.S.B. Jan. 28, 2005), available at <http://www.state.vt.us/psb/6860fnl012805.pdf>.
Order approving 75-mile electricity transmission project, including separate statement by Chairman Michael Dworkin

ATTACHMENT D: SELECTED PUBLICATIONS

Looking 'Round the Bend: The Under-Recognized Risks of Investing in Traditional Coal-Fired Generation Forward, by Michael Dworkin, in

Don't Get Burned: The Risks of Investing in New Coal-fired Generating Facilities

Interfaith Center on Corporate Responsibility (Synapse Energy Economics, Inc., February, 2008)

Ensuring Consideration of the Public Interest in the Governance and Accountability of Regional Transmission Organizations

Michael H. Dworkin and Rachel Aslin Goldwasser

Energy Law Journal, Volume 28, No. 2 (2007) at 453

"Old-Coal" Power Plants: Imprudent Investments?

Michael Dworkin, Shanna Vale, and Ellen Crivella

Science 315, 1791b (2007)

DOI: 10.1126/science.315.5820.1791b

All Hands on Deck: Recruiting Clean, Secure and Distributed Help for America's Energy Needs Forward, by Michael Dworkin, in

Freeing the Grid: How Effective State Net Metering Laws Can Revolutionize Energy Policy

Network for New Energy Choices (November 2006)

Revisiting 'The Environmental Duties of Public Utility Commissions'

(with David Farnsworth, Jason Salmi Klotz and Jason Rich)

VERMONT JOURNAL OF ENVIRONMENTAL LAW (Autumn 2006)

The Efficiency Utility: A Model for Replication?

(with Blair Hamilton and Beth Sachs)

European Council for an Energy Efficient Economy

Juried Proceedings of the ECEEE 2005 Published Proceedings (Mandelieu, France)

Four Years' Experience with the Nation's First Energy Efficiency Utility:

Balancing Resource Acquisition and Market Transformation Under a Performance Contract

(with Blair Hamilton)

American Council for an Energy Efficient Economy

Juried Proceedings of the ACEEE 2004 Summer Study Conference on Energy Efficiency

The Environmental Duties of Public Utility Commissions

(with David Farnsworth and Jason Rich)

18 PACE ENVIRONMENTAL LAW REVIEW 325 (2001)

Wired for Profit: The Property Management Professional's Guide to Capturing Opportunities in the Telecommunications Market

(with Andrew Montroll, Esq., and Stephen Huffaker, RCDD)

Building Owners and Managers Association International

118-page book. First Edition, 1998; Second Edition, 1999

Communications & Cabling
Buildings Magazine, February 1999

Building Owners Respond to Changing Telecom Environment
New York Real Estate Journal, March 17-30, 1998

Saving Blood and Money Through Consensus Building
Electricity Journal, vol. 8, no. 2, March, 1995

Where Do We Go From Here? Securing Least-Cost Resources Under the Gun of Time
Juried paper published in NRRI Biennial Regulatory Information Conference
Columbus OH, September 13, 1990

A New Social Contract: Vermont's Image of the Future
Telecommunications Abstracts Annual for 1988 Bowker A&I 1989

"The Law is Changing", Chapter VII of **New Opportunities, New Challenges**,
The Governor's Telecommunications Commission Montpelier VT, January 1986

State Regulators, State Competitors (with V. Louise McCarren) in
THE NEW TELECOMMUNICATIONS ERA
(Herbert Forrest and Richard Wiley, eds., Practicing Law Institute 1985)

ATTACHMENT E:

SELECTED PRESENTATIONS

Looking 'Round The Bend Ahead:

Under-Recognized Risks of Investments in Traditional Coal Fired Generation

New York Society of Security Analysts

New York, New York

February 26, 2008

Desperate Buyers in a Sellers Market: Lessons For Our Carbon Constrained World

Leadership Champlain Annual Energy Seminar

IBM Semi-conductor Production Facility, Essex Junction, Vermont February 12, 2008

Chasing Carbon From Within Academia

Midd-Shift Carbon Neutral Campus Climate Committee

Middlebury College, Middlebury, Vermont

December 13, 2007

Global Energy Justice Drafting Sessions

McGill University Faculty of Law

Montreal, Quebec, Canada

December 8-9, 2007

Business Structures and Contract Incentives for an Energy-Efficiency Utility

Energy-Efficiency Study Tour of 17 Chinese governmental officials

Vermont Law School, South Royalton, Vermont.

December 7, 2007

Merging Environmental and Energy Concerns in Vermont's Planning and Siting Laws

Practitioners' Working Group (with Kinvin Wroth, Peg Elmer, LUI and IEE)

Vermont Law School, South Royalton, Vermont.

November 28, 2007

Education in the New Environmental Economy

Vermont Environmental Consortium

Norwich University, Northfield, Vermont.

November 3, 2007

Research Agenda Authorizations

Board of Directors of the Electric Power Research Institute

Scottsdale, Arizona

November 1, 2007

Research Proposal Reviews

Research Advisory Council of the Electric Power Research Institute

Scottsdale, Arizona

October 31, 2007

The Current State of Energy Services

"Consumer Energy Symposium," National Association of Utility Consumer Advocates

Boulder, Colorado

October 29-30, 2007

Curriculum Review

Board of Advisors, University of Vermont School of Engineering and Computer Sciences.
Burlington, Vermont October 26, 2007

Annual Research Agenda Review

Carnegie Mellon's Electric Industry Research Center
Pittsburgh, PA October 17-18, 2007.

Energy, Efficiency and our Environment for America, China, and the World

State Environmental Protection Agency of China: Environmental Study Tour
Vermont Law School/US AID Project
South Royalton, Vermont October 12, 2007

Global Energy Justice

Forum for International Jurists Addressing *Ethical Energy For A Lasting World*
Institute for Energy and the Environment at Vermont Law School
South Royalton, Vermont September 21, 2007

Board of Directors' Strategic Planning Day

Washington Electric Cooperative
Seyon Ranch
Groton Vermont September 18, 2007

State Electric Regulatory Commission of China

Peer-to-Peer Regulatory Conference
Federal Energy Regulatory Commission
Washington D.C. August 24, 2007

{{Participation without formal presentation

EPRI Board of Directors Meeting
Marina del Ray CA August 5-7, 2007}}

((Participation without formal presentation

National Association of Regulatory Utility Commissioners
Committee on Energy Resources and the Environment
New York, NY July 16-18, 2007))

Energy Policy: the World's Most Important Environmental Issue

Green Mountain Global Forum
Waitsfield Vermont June 19, 2007

Living in Interesting Times:

Drawing on Co-op Values to Meet the Challenges of a World of High Priced Power

Annual Meeting of the Washington Electric Cooperative
Barre, Vermont May 22, 2007

Energy, Environment and Efficiency for China, the US and Our World

Economic and Trade Commission of Guangdong Province, Sun Yat-sen University,
Vermont Law School & U.S. Agency for International Development:
“Conference of Legal Strategy on Promoting Efficient Use of Energy and Resource”
Guangzhou, GD Province, China May 11, 2007

From the Horizon to the Neighborhood: Futures for Vermont in a Carbon Constrained World

The Nature Conservancy of Vermont – 2007 Annual Meeting of the Board
South Royalton, Vermont April 19, 2007

Energy Efficiency: Business Structures for Solving Part of Our Climate Change Problem

Yale University: Center for Business & the Environment at Yale, the Climate Change and
Industrial Environmental Management and Energy Student Interest Groups and Energy Club,
Yale School of Management
New Haven, Connecticut April 9, 2007

Energy Efficiency in America’s Electricity System

Yale University: School of Forestry and Environmental Studies
New Haven, Connecticut April 9, 2007

Chasing Carbon and Pollutants through a Life in the Law (Remarks and Discussion)

Yale University: Environmental Law Society of Yale Law School
New Haven Connecticut April 9, 2007

Energy, Environment, and Law for Our World, Our Nations and Law Students

Sun Yat-sen University Faculty of Law
Guangzhou, Guangdong, China March 22, 2007

Vermont’s Energy Trilemma in a Carbon-Constrained World

Vermont Senate Finance Committee February 20, 2007

Energy Regulation & the Environment: An Introduction to Our Trilemma

University of Vermont – School of Engineering & Mathematical Sciences
Burlington Vermont February 16, 2007

Once A Distant Thunder, Now An Issue Every Day:

What Can Vermonters Do When Carbon Drives Us All?

Challenge Speech to Leadership-Champlain Annual Conference
South Burlington, Vermont February 13, 2007

Desperate Buyers in a Sellers Market for Electric Power:

Can Vermont Do Better In a Carbon Constrained World?

Keynote Speech to Leadership-Champlain Annual Conference
South Burlington, Vermont February 13, 2007

***Once A Distant Matter, Now An Issue 'Cross the Board:
A Green New Deal For Vermont, As Carbon Drives Us All***
Vt House Committee on Energy & Natural Resources
Montpelier, Vermont: February 8, 2007

Energy Regulation and the Environment: An Introduction to Our Trilemma
Manchester Study Group: Equinox Hotel
Manchester, Vermont February 06, 2007

Energy, Environment, and Law for Our World, Our Nation and Our Selves
Governor's Institute of Vermont Annual Symposium
Goddard College, Plainfield, Vermont February 3, 2007

Energy, Environment, and Law for Our World, Our Nation and Law Students
Middlebury College: Pre-Law and Environmental Societies
Middlebury, Vermont January 25, 2007

Green Mountains, Green Valleys & a Green New Deal for Vermont
Shems Dunkiel Kassel & Saunders 2007 Client Breakfast Series
Burlington, Vermont January 25, 2007

Green Mountains, Green Valleys & a Green New Deal for Vermont
Joint Session of Vermont Senate Committees on Agriculture, Economic Development,
Transportation, Energy and Natural Resources
Montpelier, Vermont January 24, 2007

A Needy Buyer in a Seller's Market
Can Vermont Do Better in a World of High Priced, Carbon Constrained, Power?
Vermont House Committee on Energy and Natural Resources
Montpelier, Vermont January 9, 2007

Energy Efficiency: What Can the First Foremost Resource Really Do?
Carnegie Mellon University: Engineering & Public Policy Annual Research Review
Pittsburgh, Pennsylvania November 1, 2006

**Energy Efficiency for Needy Buyers in a Sellers' Market:
How Efficiency Programs Helped the Vermont PSB Reduce the Burden of Electric Costs
Even As Market Prices Rose**
American Society of Environmental Journalists: Annual Meeting
Burlington, Vermont October 28 2006

From Searsburg to Kyoto: Carbon Constraints and State Energy Choices
Annual Meeting Renewable Energy Vermont
Burlington, Vermont October 19, 2006

High Temps, High Tech:

Energy, Environment & Technology in a Carbon-Constrained World
Vermont Law School, South Royalton, Vermont October 13, 2006

Energy Choices in a Carbon Constrained World
Vermont Environmental Consortium -- Environmental Expo 2006
Norwich University, Northfield, Vermont October 5, 2006

Building a Good Efficiency Program: What Does A State PUC Need?
NARUC: Midwest Energy Efficiency Initiative
Chicago, Illinois September 27, 2006

Resource Planning: IRP, Portfolio Management, and Real-World Results
Energy Resources & the Environment Committee
National Association of Regulatory Utility Commissioners
San Francisco, California August 1, 2006

Needy Buyers in a Sellers' Market
Vermont Rural Energy Council
Montpelier, Vermont July 20, 2006

I've Looked at Both Sides Now: Risk Management in Power Purchase Agreements
JPMorgan 2006 Public Power & Gas Conference
New York, New York May 12, 2006

Energy Portfolios, Energy Paths, for a Carbon-Constrained World.
Town Energy Forum Tunbridge Town Hall
Tunbridge, Vermont May 9, 2006

Living In Interesting, Carbon-Constrained, Times
Drawing On Co-op Values To Meet The Challenge of a High Power-Cost World
Keynote Speech: Annual Meeting of the Vermont Electric Cooperative
Smuggler's Notch, Vermont April 29, 2006

Emergency Preparedness: Joint Responses to Common Challenges
Network on North American Studies in Canada: Conference & Working Groups
U.S.-Canada Fulbright Association
Ottawa Canada March 23-34, 2006

H. 859 The Energy Security & Reliability Act
Vermont Senate: Committee on Natural Resources & Energy
Montpelier, Vermont March 22, 2006

S.124 An Act Relating to Applications to Extend the Operation of Vermont Yankee Nuclear Power Plant and Related Certificate of Public Good Process

Vermont Senate: Committee on Finance
Montpelier, Vermont (by telephone) February 28, 2006

Market Mechanisms for Controlling Green House Gas Emissions
(Moderator & Provocateur)
4th Annual Business Sustainability Initiative Conference of
Tuck School of Business, Vermont Law School, and Thayer School of Engineering
Hanover, New Hampshire February 24, 2006

The Waiting Resource:
Energy Efficiency as a Way to Lower Electricity Costs and Burdens
Arkansas Public Service Commission
Little Rock, Arkansas February 20, 2006

An Energy Future for Vermont in a Carbon-Constrained World
Grace C. Clarke Annual Lecture: Unitarian Universalist Assembly
Montpelier, Vermont February 19, 2006

Warning Signs, Winning Solutions:
Vermont's Energy Future in a Low Carbon World
Vermont Senate: Committee on Natural Resources & Energy
Montpelier, Vermont February 17, 2006

Biofuels in Our New Energy Economy
Cumberland School of Law
Samford University
Birmingham, Alabama February 10, 2006

Energy Needs, Energy Options: World, Regional and State Matters Relevant to Electricity Choices for Vermont
Town of Manchester Planning Commission
Manchester VT December 19, 2005

Trapped As Buyers in A Seller's Market: Can Vermonters Do Better In A Carbon-Constrained World?
VLS-Snelling Institute: Vermont's Energy Future
Vermont State House, Montpelier, VT December 12, 2005

Sub-National Climate Schemes: U.S. Regional Green House Gas Initiatives
Center for International Sustainable Development Law
McGill University, Montreal, Canada December 4, 2005

Energy Environment and Law for Our World, Our Nation, and VLS
Institute for Energy and the Environment at Vermont Law School: Reception
Washington, DC November 3, 2005

Energy, Environment and Law for Our World, Our Nation and VLS

Trustees' Meeting, Vermont Law School
South Royalton, VT

September 30, 2005

Wrap Up Panel: Energy Efficiency As A Resource

Third National Conference, American Council for an Energy-Efficient Economy
Berkeley, CA

September 27, 2005

The True Value of Photo-Voltaic Distributed Generation

Annual Meeting, Renewable Energy Vermont
South Burlington, VT

September 21, 2005

Energy, Environment and Law for Our World, Our Nation and VLS

Student Open House, Institute for Energy & the Environment, Vermont Law School
South Royalton, VT

September 20, 2005

Energy Futures, Energy Choices, For Vermont and for America

Mark Johnson Show with host Ken Squier
WDEV half-hour radio interview

August 26, 2005

Discussions Re Research Agendas and Power Resource Expectations

Advisory Council, Electric Power Research Institute
San Diego, CA

August 6-8, 2005

Guest of Honor Comments: Thanks ...and Challenges!

Summer 2005 Dinner, Energy Resources & the Environment Committee
National Association of Regulatory Commissioners
Austin, TX

July 27, 2005

Technical, Financial and Environmental Aspects of Rational, Resource Selection

Electricity Committee of National Association of Regulatory Utility Commissioners
Austin, TX

July 26, 2005

Trapped As a Buyer in A Seller's Market:

Can Vermont Do Better By the Decade's End?

Keynote speech Windham Foundation Conference: Vermont's Energy Future
Grafton, VT

July 10, 2005

FERC & NARUC Powers and Goals:

Jurisdictional Lines, Agency Skills and Investor Expectations

NARUC/FERC Resource Planning and Procurement Forum of Commissioners
Chicago, IL

May 16, 2005

Energy, Environment, and Law for Our World, Our Nation and VLS

Vermont Law School Faculty Luncheon

South Royalton VT

May 10, 2005

Energy Siting Challenges: Getting Out of a Dead End -- Honorably!

Canadian Association of Members of Public Utility Tribunals (CAMPUT)

2005 Annual Meeting

Quebec City, QC, Canada

May 3, 2005

Whither Power Markets? Jurisdictional Issues, Institutional Competence, and Investor Requirements Affecting the Future of Wholesale Power Markets

American Public Power Association

2005 Annual CEO Meeting

Scottsdale, AZ,

March 7, 2005

Energy Independence For America: Dreams of Independence, Realities of Reliance

National Association of Regulatory Commissioners 2004 Annual Meeting

Nashville, TN

November 4, 2004

Power Markets and Patterns in Capital Costs for United States' Utilities

Energy Regulators Regional Association

2004 Annual Meeting

Budapest, Hungary

May 6, 2004

Goals, Tools, and Tasks for Utility Regulation

Energy Regulatory Commission of Macedonia (US AID/ NARUC Regulatory Partnership)

Skopje, Macedonia

March 21-26, 2004

Market Based Electric Rates: Can a State Swim the Jurisdictional Seas?

American Antitrust Institute; conference in honor of Alfred Kahn

Arlington, VA

January 21, 2003

Market-Based Electric Rates: Can the Dream Survive Reality?

Conference on Restoring Just and Reasonable Electricity Service

Washington, D.C.

September 28, 2002

Standard Market Design? Healthy Market Design!

Harvard Electric Policy Research Group

Cambridge, MA,

May 30, 2002

Building the Markets: Not by Faith, But by Acts

Year-end meeting of the Federal Energy Bar Association,

Washington, D.C.,

December 2001

Telecommunications and Real Estate Value

Urban Development Institute of Quebec

Montreal, Quebec

February 17, 1999

The Mind of the Decision-Maker: Effective Advocacy Before Administrative Tribunals
Administrative Law: Practice Before Administrative Agencies
Vermont Bar Association Symposium
Rutland VT, April 23, 1992

Moderator: *Evolving Applications of Telecommunications and Needs for Vermont's Future*
Conference on Telecommunications Policy: Implications for Vermont
University of Vermont
Burlington VT, February 4, 1991

Chair: *Least-Cost Planning and Energy Choices for a Sound Society*
Summary panel on juried papers at NRRI Biennial Regulatory Information Conference
Columbus OH, September 13, 1990

Sharing the Pool: Allocating Interstate and Intrastate Revenue for Federal Tax Purposes
Comments On Preemption Strategy, U.S. Advisory Commission on Intergovernmental Relations
Washington, D.C., September 28, 1989

Introduction and Overview and Confidential Information and Protective Agreements
Classes for the National Judicial College's course in Administrative Law for Regulatory Agencies,
Portsmouth, NH, March 13-17, 1989

The Public Service Board Process: The Scope, the Players, and the Rules
Administrative Law: The Rules of the Game
Vermont Bar Association Symposium
Brownsville VT, December 2, 1988

New Social Contracts, New Social Visions
Telecommunications: Meeting Tomorrow's Challenges,
The Telecommunications Conference Center
New York, NY, December 1, 1988

Wasted Power, Needed Power: Utility Energy Efficiency and Environmental Consequences
Annual Meeting of the Vermont Environmental Board,
Mendon, VT, November 4, 1988

Telecommunications Deregulation: Key Factors For State Regulators
NARUC Regional Training Program
Laconia NH, September 16, 1986

Line-of-Business Restrictions for the Bell Operating Companies
Current Issues Challenging the Regulatory Process
New Mexico State University
Albuquerque NM, April 15-17, 1986

Reporter: Proceedings of The Future of the Public Switched Network,

The Amos Tuck School of Business Administration & the Communications Committee of the
National Association of Regulatory Utility Commissioners (NARUC)
Hanover NH, April 7-11, 1986

Telecommunications Changes from Monopoly to Competition
Direct Dialogue; a symposium of Northwestern Bell
Minneapolis MN, February 11, 1986

Fewer Deadly Metals: Clean Water Act Criteria for Electroplaters and Metal Finishers
1984 Annual Convention of the American Electroplating Society
Orlando FL, January 7-11, 1984

ATTACHMENT F - 1:**SPECIAL POSITIONS**

Moderator, Town Meeting
East Montpelier, Vermont

Elected 2005, 2006, 2007, 2008 ballots
Town Meetings 2006, 2007, 2008

Moderator, School Meeting
East Montpelier School District

Elected 2005, 2006, 2007, 2008 ballots
School District Meetings 2006, 2007, 2008

National Council on Competition and the Electric Industry (1994-1995; 2000- 2005)

NARUC Special Committee on Restructuring the Electric Industry (2000-2003)

Federal Energy Regulatory Commission (FERC)
Advisory Committee on Standard Market Design Cost-Benefit Study (2002)

Chair, NARUC Staff Sub-Committee on
Unpriced Environmental Costs of Energy Production. (1992-1993)

Chair, NARUC Staff Sub-Committee on Incentive Regulation and Rate Design. (1991- 1993)

Member, NARUC Staff Committee on Energy Conservation and Least-Cost Planning (1990-1993)

Member, New England Conference of Public Utility Commissioners (NECPUC) Staff Committee
on Telecommunications. (1984-1990)

Member, NARUC Staff Committee on Communications. (1984-1990)

Staff, Federal-State Joint Board for FCC Docket No. 85-124: "minutes-of-use" allocations for
telephone network costs. (1985-1989)

Town of East Montpelier (Vermont) Conservation Fund Advisory Committee (1996 to present)

Alfred P. Sloan Industry Studies Program: Affiliate Scholar (2005 to present).

ATTACHMENT F -2:**MEMBERSHIPS**

Appalachian Mountain Club:

Member 1992-1996, 2001-2006

Boston Athenaeum:

Life Member since 1978

Hoag Island Preservation Trust:

Member since 1981
Trustee 1995-2001, 2005-2008

Lake Champlain Committee

Member 2003-2004, 2005-2006

Squam Lakes Association:

Occasional Member since 1978

Vermont Academy of
Science & Engineering

Affiliate Member 2006- present