



Eighth Annual

Symposium on Energy in the 21st Century

A Division of Synapse Sustainability Trust Inc.

Looking Ahead to a Future in Renewable Energy

A Local & Global Perspective

Friday, April 27, 2012

At "The Links" in East Syracuse, New York

PROGRAM

7:15am *Registration & Continental Breakfast*

8:00am- 8:30am *Greetings & Introductory Remarks*

Rhea Jezer, Ph.D, Symposium Chair

Bill Magnarelli, NYS Assemblyman 120th

8:30am - 10:30am *Plenary Speakers*

Overview: The Importance of Renewable Energy for Climate Change; Legislative Initiatives

Michael Gerrard, Director Climate Center, Columbia Law School

Germany's Use of Solar Voltaic Energy: A Successful Model for Central New York

Ruggero Schleicher-Tappeser, Sustainable Strategies and Renewable Energy
Journalist and Consultant, Berlin, Germany

New Initiatives for New York State

John G. Williams, Director of Energy Analysis, NYSERDA

Danish Wind Power Experience as a Model For Opportunities in the US Northeast

Willett Kempton, Ph.D, Professor, University of Delaware & Otto Mønsted Guest
Professor, Denmark's Tekniske Universitet

Including Biomass as a Renewable Resource: National Initiatives for Wind, Solar & Biomass

Nathanael Greene, Director Of Renewable Energy Policy, NRDC

Incorporating Renewable Resources and Energy Storage Technologies

Garry Brown, Chairman, New York State Public Service Commission

10:30am-12:00pm *Panel Discussion with Plenary Speakers*

Kit Kennedy, (Moderator) Counsel to Air & Energy Program, NRDC

12:00pm - 12:45pm *Hot Buffet Lunch*

Presentation of 2012 Environmental Award to:

Joanie Mahoney, Onondaga County Executive

12:45pm - 1:45pm *Keynote Address*

Our Sustainable Energy Future

Attorney General Eric Schneiderman

2:00pm Optional Tours:

***Fenner Windfarm**

***ESF Woodchips to Ethanol Process**

***Syracuse Center of Excellence**

***National Grid Training Center**

***Discussion & Networking Session**

SPEAKERS BIOS



Garry A. Brown

Garry Brown was confirmed as a Commissioner of the New York State Public Service Commission on December 13, 2007 and was named Chairman on January 2, 2008. His term runs through February 1, 2015.

Mr. Brown has more than 30 years of experience in the public, private and not-for-profit energy and electricity sectors, including previously holding a position as Senior Policy Analyst for the former New York State Energy Office, which had been charged with developing a sustainable and sound energy policy and promoting energy efficiency, while protecting the environment and fostering economic development.

As PSC chairman, Mr. Brown sits on the State Energy Planning Board. He is also chairman of the New York State Board on Electric Generation Siting and the Environment. He sits on the board of the New York State Energy Research and Development Authority, the New York State Environmental Board, and the board of the Regional Greenhouse Gas Initiative Inc. He is a member of the New York State Broadband Development and Deployment Council.

He is a member of the Advisory Council to the Board of Directors of the Electric Power Research Institute (EPRI). The Edison Foundation Board of Directors created and serves as a member of the Institute for Energy Efficiency (IEE)

Garry Brown received his B.A. from State University College at Plattsburgh and his Masters of Public Administration from the Rockefeller School of Public Affairs at the State University of New York at Albany.



Michael B. Gerrard

Michael B. Gerrard is Andrew Sabin Professor of Professional Practice at Columbia Law School, where he teaches courses on environmental and energy law and directs the Center for Climate Change Law. He also holds a joint appointment as a member of the faculty of Columbia's Earth Institute. Before joining the Columbia faculty in January 2009, he was managing partner of the 110-lawyer New York office of Arnold & Porter LLP; he is now Senior Counsel to the firm.

Michael practiced environmental law in New York City full time from 1979 to 2008 and tried numerous cases and argued many appeals in federal and state courts and administrative tribunals. He was the 2004-2005 chair of the American Bar Association's 10,000-member Section of Environment, Energy and Resources. He has also chaired the Executive Committee of the Association of the Bar of the City of New York, and the Environmental Law Section of the New York State Bar Association.

Since 1986, Gerrard has written an environmental law column for the New York Law Journal, and since 1989 he has been editor of a monthly newsletter, Environmental Law in New York and is author or editor of nine books, two of which were named Best Law Book of the Year by the Association of American Publishers

Michael Gerrard received his B.A. from Columbia University and his J.D. from New York University Law School, where he was a Root Tilden Scholar.



Nathanael Greene

Nathanael Greene is the director of renewable energy policy and is responsible for coordinating NRDC's work on renewable fuels and power. NRDC aims to quickly and dramatically expand the use of renewable energy in the most sustainable and cost-effective way.

Nathanael joined NRDC in 1992 after receiving his Bachelor of Arts Degree in Public Policy from Brown University. After a two year sabbatical working on his Master of Science Degree in Energy and Resources from University of California Berkeley, he returned to NRDC in 1996. He has been an integral part of the NRDC energy team ever since.

Mr. Greene's particular expertise is in clean energy technologies including wind, solar and biomass energy, fuel cells, combined heat and power and energy efficiency and in regulations and policies to promote these technologies. For the last decade he has been focusing on assessing the sustainable potential for biofuels and biopower and developing policies to advance them.



Rhea Jezer

Rhea Jezer founded the Symposium on Energy in 2005 and has been the chair these past eight years. In May, 2012, she will be awarded the Post Standard Achievement Award honoring, among other achievements, her work on the Symposium on Energy.

For many years, Rhea has been an environmental educator as well as active in environmental policy in New York State and nationally. She is a consultant to eco-businesses, candidates, environmental groups, as well as an advisor to elected officials for both major parties. She was an environmental advisor for Senator Hillary Clinton for nine years, worked closely with Governor George Pataki, and served on the transition teams for President Bill Clinton, Attorney General Eliot Spitzer, Governor Andrew Cuomo, and Attorney General Eric Schneiderman.

Rhea is a board member of the League of Conservation Voters and Iroquois Group of Sierra Club. She was chair of the Atlantic Chapter Sierra Club for several years. Rhea served as Chair of the Dewitt Democratic Party and was a candidate for Congress two times. She is a presenter for the Al Gore's Climate Project on Global Warming, was Senior Lecturer at Cazenovia College and presently holds the position of Associate Professor (Adjunct) at SUNY School of Environmental Science and Forestry (ESF).

Dr. Jezer holds a Ph.D from Syracuse University, MA from Columbia University, and a BA from Brooklyn College. She was awarded a Congressional Fellowship on Women & Public Policy where she penned major legislation for the encouragement of women and under-represented minorities to enter the fields of science and math. Rhea Jezer is as well a noted musician and performed extensively as a harpsichord soloist for many years, including at the Skaneateles Music Festival.



Willett Kempton, Ph.

Willett Kempton just returned to the U.S. from his position as the Otto Mønsted Guest Professor at Denmark's Tekniske Universitet. Dr. Kempton is on faculty at the University of Delaware, where he is Professor in the College of Earth, Ocean, and Environment, and in the Department of Electrical and Computer Engineering. He teaches and conducts research on emerging zero-carbon technologies and environmental policy. He is also Director of Research and External Affairs, Center for Carbon-free Power Integration.

Dr. Kempton has published extensively and is a sought after speaker on wind energy. He published the first proposal for what is now called Vehicle-to-Grid power (V2G) in 1997, and the basic equations for V2G power and V2G markets in 2005 (each with co-authors). Kempton and industry partners are creating businesses to establish commercial-scale V2G implementation. In addition to his articles and reports on V2G, Dr. Kempton has published on offshore wind power, the beliefs and values that citizens and policymakers apply to environmental issues, feedback to stimulate energy efficiency, and on the factors that move citizens to environmental action.

Willett Kempton holds a Ph.D. in Anthropology from the University of Texas in Austin, and Postdoc in Quantitative Anthropology and Public Policy from the University of California, Berkeley.



Katherine (Kit) Kennedy

Kit Kennedy is Counsel to Air & Energy Program at NRDC, and leads the legal and regulatory efforts on climate change and clean energy at the national level.

Before returning to NRDC, she served as the top environmental litigator for the State of New York as Special Deputy Attorney General for Environmental Protection for New York State Attorney General Andrew M. Cuomo and directed the Environmental Bureau.

Kennedy is a graduate of Harvard Law School and Harvard University. She was a law clerk for the Honorable Morris M. Lasker in the Southern District of New York. She first joined NRDC in 1988, and has worked on a wide range of environmental issues, ranging from water pollution and land use planning to environmental justice, global warming and clean energy. She is co-director of the Yale Environmental Protection Law Clinic and has also taught as an adjunct professor at the Fordham University School of Law.

Kit was the very first speaker in our first Symposium seven years ago and has stayed with us since as an excellent moderator.



Joanie Mahoney

Joanne M. Mahoney was elected in November 2007 and is the first woman to serve as County Executive for Onondaga County.

Under her leadership, Onondaga County has advanced more than sixty distinct green infrastructure projects including the construction of green roofs, porous asphalt parking lots and basketball courts, and rainwater reuse systems.

As part of the 2012 budget, Joanie has secured \$28 million in capital funding to advance improvements to county parks and county facilities, supporting trail reconstruction, green infrastructure applications, and energy efficiency improvements. Over the next six years, the county will be planting 8,000 trees and will invest more than \$70 million in green infrastructure in the City of Syracuse, as well as a \$3 million expansion of the Save the Rain program to fund green infrastructure projects in suburban communities. The award winning Save the Rain program has led Onondaga County to be recognized nationally by the United States Environmental Protection Agency as one of ten communities in the nation demonstrating leadership and innovation in the deployment of green infrastructure solutions to storm water related pollution.

For her outstanding environmental leadership, the 2012 Symposium on Energy in the 21st Century awards Joanie Mahoney our outstanding environmental award of the year.



Ruggero Schleicher-Tappeser

Since 2008, Ruggero Schleicher-Tappeser, who is based in Berlin, Germany, works as freelance consultant for energy policy and renewable energies. His consulting and writing includes photovoltaics, public policy, business strategies, climate policy, energy policy, intercultural cooperation and sustainable development. Mr. Schleicher-Tappeser was employed as a writer for a major business journal for several years, recently served as Acting Secretary General of the Alpine Convention, an international treaty for the sustainable development of the Alpine area, with offices in Innsbruck, Bolzano and Chambéry.

Mr. Schleicher-Tappeser was founder and director of the noted EURES, Institute for Regional Studies in Europe, which is located in Freiburg, Germany, a post he held for fifteen years. Besides preparing Ph.D Students, he worked on regional development, sustainable development, transport, environment, European policies, intercultural cooperation, with projects in most European countries. He was also co-founder and co-director of SZM-praxis GmbH, Freiburg, and Research Associate for the Institute for Ecological Economics, a research project on regional technology policies.

Ruggero was born in Germany, spent much of his younger years in Italy, and speaks German, English, French and Italian fluently. He holds a degree in physics from the Univeristy of Bern/Switzerland, and is noted throughout Europe for his knowledge on renewable energies and the development of photovoltaics. He has written many papers and books and is sought after as a speaker worldwide.



Eric Schneiderman

Eric T. Schneiderman was elected the 65th Attorney General of New York State on November 2, 2010. As Attorney General, Schneiderman is the highest ranking law enforcement officer for the State, responsible for representing New York and its residents in legal matters. Schneiderman has worked to restore the public's faith in its public and private sector institutions by focusing on areas including public integrity, economic justice, social justice and environmental protection.

Mr. Schneiderman served many years as a New York State Senator where he was known, among other issues, as a leader in environmental legislation. He was often praised as a leading reformer in the State Senate by numerous editorial pages and good government organizations across

New York. Among his many legislative accomplishments, Schneiderman passed sweeping ethics reforms, and led the effort to reform the draconian Rockefeller drug laws, cracked down on health insurance companies seeking to deny coverage to vulnerable New Yorkers, and enacted the toughest law in the nation to root out fraud against taxpayers.

Mr. Schneiderman spent 15 years in private practice as an attorney, and later as a partner, at the firm of Kirkpatrick and Lockhart, where he handled complex litigation. He was also a public interest lawyer for many years, representing taxpayers in historic lawsuits against the Metropolitan Transportation Authority (MTA), tenants trying to evict drug dealers from their buildings, and women seeking access to health clinics.

Attorney General Schneiderman graduated from Amherst College in 1977 and Harvard Law School in 1982.



John G. Williams

As Director of Energy Analysis, Mr. Williams has responsibility for overall policy and program planning for NYSERDA, and he leads NYSERDA's efforts with respect to the New York State Energy Plan, serving as the Director of the multi-agency Working Group of the State's Energy Planning Board. In addition, he oversees the state's fuels data collection and reporting activities, energy emergency planning,

energy price forecasting and systems modeling, and NYSERDA energy efficiency and renewable energy program evaluation and analysis.

In his previous position with NYSERDA, Mr. Williams served as Deputy Counsel and oversaw NYSERDA's participation in administrative proceedings before the New York State Public Service Commission, and helped develop aspects of NYSERDA's role in the state's carbon dioxide cap-and-trade program, the Regional Greenhouse Gas Initiative. Previous to his roles at NYSERDA, Mr. Williams gained experience in the government, public interest and private sectors. He served as Energy Counsel for the New York State Assembly; was a Staff Attorney for The Energy Project of the Pace University School of Law; and gained utility experience as a Financial Analyst for the Public Service Company of New Mexico, a combined electric and natural gas utility company serving the largest markets in the state of New Mexico.

Mr. Williams earned his Bachelor of Arts degree in History from Columbia University in New York City, a Juris Doctor degree from the St. John's University School of Law, and a Master of Laws in Environmental Law from the Pace University School of Law. He is a licensed attorney in the states of New York and New Jersey.