ENERGY in the 21st Century

# *PAST PROGRAMS*

## *2005-2017*

**Thirteenth Annual**

***Symposium on Energy in the 21st Century***

**HOW CAN WE REACH OUR ENERGY GOALS?**

**New York State 50% by 2030 United States 30% by 2025**

**April 21, 2017**

**"The Links" E. Syracuse, New York**

***7:15am – 7:50am***

**Registration, Networking & Continental Breakfast**

***8:00am – 10:15am***

**RHEA JEZER**, **Symposium Director**
**Symposium on Energy in the 21st Century**
***Opening Remarks; Greetings and updates***

**JANET JOSEPH, Vice President**
**Technology & Strategic Planning**
**NYSERDA**
***How will New York State reach the goal of 50/30?***

**ALFRED GRIFFIN, President**
**NY Green Bank**
***What criteria is used to choose energy projects to support and finance? What is the Green Bank and what is its role?***

**ANNE REYNOLDS**, **Executive Director**
**ACE New York**
***50% and Beyond: What will it take New York to get there? How will offshore wind fit in?***

**JOHN SHINN, Director District 4**
**United Steel Workers**
***The importance and plans for of a well trained, well paid labor force to achieve our goals.***

**THOMAS DINAPOLI, Comptroller**
**New York State**
***How the office of the Comptroller can initiate energy efficiency while saving tax payers dollars.***

**DAVID MOONEY, NREL Center Director**
**Strategic Energy Analysis Center**
**National Renewable Energy Laboratory**
**Golden, Colorado. US Department of Energy**
***Renewable energy market trends and Impacts on Jobs and the economy***

***10:30am - 12:00pm Panel Discussion with Morning Speakers Moderated by:***

**KIT KENNEDY**, NRDC
**Director Energy & Transportation Program**

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

***12:45pm - 1:00pm Cybersecurity Briefing:***

**Dr. ERFAN IBRAHIM, NREL**
Director Cyber Physical Systems Security and Resilience

***1:00pm-1:50 KEYNOTE***

**Dr. DAVID MOONEY**

***Planning for the Future: High Wind and Solar Penetrations in the Electricity Grid***

*2:00pm* ***Board Buses for Optional Tours:***

**Fenner Wind Farm & Educational Center**
**ESF Woodchips to Ethanol Process;**
**Onondaga County Composting Facility**
**Onondaga Lake Cleanup & Wetland Restoration;**
**Budweiser Plant Sustainability**
**S.U. School of Engineering Grid Workshop**

**Twelfth Annual**

***Symposium on Energy in the 21st Century***

# THE ELECTRIC GRID

***CYBERSECURITY *INTEGRATION OF RENEWABLE ENERGY**
***MICRO GRIDS *WORKFORCE DEVELOPMENT**

**April 8, 2016**

**"The Links" E. Syracuse, New York**

***7:15am – 7:50am***

**Registration, Networking & Continental Breakfast**

***8:00am – 10:15am***

**RHEA JEZER, Symposium Director**
**Symposium on Energy in the 21st Century**
*Opening Remarks*

**RICHARD KAUFFMAN**
**Chairman of Energy & Finance for NYS Office of Governor Cuomo**
*Renewable Energy in New York State: Overview*

**MATT DRISCOLL, Commissioner**
**NYS Department of Transportation**
*Fitting Transportation into the Mix*

**DENNIS ELSENBECK**
**Western Regional Director Energy**
**National Grid Western Division**
*Integrated Resource Planning with Market Engagement*

**ERFAN IBRAHIM, NREL**
**Center Director, Cyber-Physical Systems Security**
*Cybersecurity, Reliability, & Resilience in Integration of Renewable Energy Resources (DER) to the Grid*

**HERMAN WIEGMAN**
**Principal Engineer**
**General Electric Global Research Center**
*Viability and Value of Micro Grids; Gaps in Technology, Policy and Standards to Support Micro Grid Functions*

**MIKE LANGFORD**
**President, Utilities Workers of America**
*New Jobs Created by Renewable Energy Grid Integration*

**AARON MAIR, Sierra Club**
**National President**
*Environmental Prospective on the Paris COP 21 and a Just Transition*

***10:30am - 12:00pm***

**KIT KENNEDY, NRDC**
**Director Energy & Transportation Program**
*Moderator, Panel Discussion*

***12:00pm - 12:45pm***

*Hot Buffet Lunch and Networking*

*12:45 - 1:00*

*Symposium Lifetime Award:* **E. CHRIS BECK**

***Keynote***

**RICHARD KAUFFMAN**

**Chairman of Energy & Finance for NYS Office of Governor Cuomo**

*2:00pm*

**Tours: Fenner Wind Farm & Educational Center; ESF Woodchips to Ethanol Process; NYS Weatherization Training; National Grid Training Facility; Budweiser Plant Sustainability**NEW S.U. School of Engineering Grid Workshop** Networking**

**Eleventh Annual**

# Symposium on Renewable Energy in the 21st Century

**a division of Synapse Sustainability Trust**

***Renewable Energy: Perception vs. Reality***

**April 17, 2015**

**"The Links" E. Syracuse, New York**

***7:15am – 7:50am***

***Registration, Networking & Continental Breakfast***

***8:00am – 10:15am***

**RHEA JEZER**, Symposium Director
Symposium on Energy in the 21st Century
***Opening Remarks***

**BOB PERCIASEPE,** President
The Center for Climate & Energy Solutions
***Behavioral perception and action to address the twin challenges of energy and climate change.***

**ELEANOR STEIN**
NYS Public Service Commission
***REV (Reforming the Energy Vision)***

**MARSHA WALTON,** Senior Project Manager
NYSERDA
***Using behavior science to influence clean energy adoption in NYS***

**MIKE WILLIAMS, Vice President**
Blue/Green Alliance
***Jobs and clean energy economy***

**MELANIE LITTLEJOHN,** Regional Director
National Grid
***The Future of Energy Storage and Production in New York State***

***10:30am - 12:00pm***

**KIT KENNEDY,** (Moderator)
Director Energy & Transportation Program, NRDC
***Panel Discussion with Speakers***

***12:00pm - 12:45pm***

***Hot Buffet Lunch and Networking***

***12:45 - 2:00***

Special Guest Speaker

**N.Y. ATTORNEY GENERAL ERIC SCHNEIDERMAN**

Symposium Award

**KIT KENNEDY**

Also: Honoring NRDC on its 45th Anniversary

***2:00pm***

**Board Buses for Optional Tours: Fenner Wind Farm; ESF Woodchips to Ethanol Process; Networking; NYS Weatherization Training; **Budweiser Plant Sustainability; **SUNY ESF Gateway Building; National Grid Training Center; Fitzpatrick Nuclear Facility Tour**

**Tenth Annual**

# Symposium on Energy in the 21st Century

***a division of Synapse Sustainability Trust***

## *Renewable Energy: What Can We Expect in the Next Ten Years*

**April 4, 2014**

**"The Links" E. Syracuse, New York**

***7:15am - 8:00am***

***Registration, Networking & Continental Breakfast***

***Opening Remarks***

**RHEA JEZER,** Symposium Director and Chair

***8:15am - 10:15am***

**ASHOK GUPTA,** Dir. of Programs & Senior Energy Economist, NRDC — ***Renewable Energy: How Far Have We Come in the Past Ten Years & What Is Ahead***

**DAN REICHER,** Executive Director, Steyer-Taylor Policy Center for Energy Policy and Finance, Stanford University — ***The Clean Energy Triangle: Technology, Policy and Finance***

**Gary Brown,** Chair, NYS Public Service Commission — ***The Future of Renewable Energy in New York***

**BOB CATELL,** Chair, Advanced Research & Technology Center, Stony Brook University — ***The Role of New Technology in Energy Future***

**JOHN RHODES,** President & CEO, NYSERDA — ***How Will NYSERDA Continue To Encourage Renewable Energy Initiatives***

**DAN KOLUNDZIC,** Vice President, Nanos Research — ***The Canadian Connection: Keeping the Renewable Portfolio Alive: Canada & U.S.***

**KEN DALY,** President, NYS National Grid — ***Will the Grid be Ready for Renewable Energy in the Next Ten Years***

***10:30am - 12:00pm***

**KIT KENNEDY,** (Moderator) Clean Energy Counsel, NRDC — ***Panel Discussion with Speakers***

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

***1:00 - 1:50***

## *Federal Prospects for Renewable Energy in the Next Ten Years*

**JOSE ZAYAS**

U.S. Department of Energy(DOE), Office of Energy Efficiency & Renewable Energy (EERE)
Program Manager for Wind & Water Power Program

***2:00pm***

**Buses for Optional Tours:Fenner Wind Farm; ESF Woodchips to Ethanol Process; SyracuseCOE; Synapse Gateway Demo Project; Networking; National Grid Training Center; NYS Weatherization Training**

**Ninth Annual**

***Symposium on Energy in the 21st Century***

**A Division of Synapse Sustainability Trust Inc.**

***Planning for a Net Zero Energy Footprint***

***Friday, April 12, 2013***

*At "The Links" in East Syracuse, New York*

**PROGRAM**

7:15am8:00am *Registration, Networking & Continental Breakfast*

8:00am10:15am

***Opening Remarks***

**Rhea Jezer,** Ph.D, Symposium Director & Chair

**Vita DeMarchi,** Partner, Synapse Sustainability Trust

***Greetings and Update***

**Frank Murray**, President & CEO NYSERDA

**Garry Brown**, Chairman, NYS Public Service Commission

**Richard Kauffman**, NYS Chairman for Energy Policy and Finance

***Net Zero Definitions and Possibilities; Successful Net Zero on a Large Scale: Army Installations***

**Jonathan Powers,** Federal Environmental Executive, White House Council of Environmental Quality

***Net Zero and Secure Energy***

**Jerry Davis**, Senior Engineer, National Renewable Energy Laboratory, Denver, Col.

***PlaNYC 2030; Comprehensive Initiative Toward Sustainability for a Large City***

**Sergej Mahnovski, Ph.D,** Director of Energy Policy, NYC Office of the Mayor

***Vision CNY; Net Zero for Communities***

**Chris Carrick,** Program Manager, CNY Regional Planning & Development Board

***Greening Cars & Trucks: Electric Cars/Alternative Fuels***

**Luke Tonachel**, Senior Analyst, Energy & Transportation Program, NRDC

***How to Organize, Finance, and Launch Local Energy Projects***

**Greg Pahl**, Author, "*Power from the People*"

10:30am-12:00pm *Panel Discussion*

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

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

*Posthumous Award to* **John Mahoney**

*Greetings*

**Joanie Mahoney,** Onondaga County Executive

*Keynote Address:*

***Future of Energy Policy, Federal and New York State***

**Richard L. Kauffman**

Chairman for Energy Policy and Finance

New York State

Optional Tours Following Symposium: **Fenner Windfarm Tour; ESF Woodchips to Ethanol Process; Syracuse Center of Excellence; Synapse Downtown Gateway (Demo Project); Networking & Discussion**

***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, Denmarks 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**

***Seventh Annual***

**Symposium on Energy in the 21st Century**

**A Division of Synapse Sustainability Trust**

## *Reducing Our Carbon Footprint - Taking the Right Path*

**Friday, April 8, 2011**

***At "The Links" in East Syracuse, New York***

PROGRAM

**7:30am Registration &Continental Breakfast**

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

**Rhea Jezer, Ph.D,** Symposium Chair

*Greetings* **Sam Roberts**, Assemblyman 119th District

**David Valesky**, New York State Senator 49th District

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

*The Climate Crisis & the North East: Direct Impacts*

**Steven Leibo Ph.D.** Professor, Russell Sage College

*Individual Actions Add Up*

**Peter Lehner**, Executive Director, NRDC

*How Onondaga County Is Working To Limit Carbon Footprint*

**Joanie Mahoney**, Onondaga County Executive

*How Will New York State Approach Reducing Carbon Footprint*

**Joe Martens**, Commissioner, DEC

*Green Buildings: New Standards to Reduce Carbon Footprint*

**Rick Fedrizzi**, President, CEO & Founding Chair USGBC

*Sustainable Agriculture & Rural Development*

**Jill Harvey**, NYS Director, Rural Development, USDA

*How do we make this work in our state*

**Frank Murray**, President & CEO NYSERDA

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

**Kit Kennedy**, Counsel to Air & Energy Program, NRDC

**12:00pm - 1:30 Hot Buffet Lunch and Luncheon Speaker**

*The State of the DEC*

## DEC Commissioner Joe Martens

**1:30pm Optional Tours:**

- ***Fenner Windfarm***
- ***ESF Woodchips to Ethanol Process***
- ***Syracuse Center of Excellence***
- ***Fitzpatrick Nuclear Facility***
- ***National Grid Training Center***

**$40 per person /$20 students or limited income including breakfast and lunch**

**$15 optional tour - transportation provided. To Register: www.energy21symposium.org**

**or contact *Dr. Rhea Jezer* : rjezer@gmail.com**

Sixth Annual

# Symposium on Energy in the 21st Century

## *"The Energy Highway"*

*Transmission, Collection and Distribution of Energy*

*Rhea Jezer, Chair*

**APRIL 16, 2010**

***The Links at Erie Village, East Syracuse, N.Y.***

**Program**

7:30am Registration & Continental Breakfast

8 am Welcoming Remarks

**Dr. Rhea Jezer, Symposium Chair**

Greetings

**Assemblyman William Magnarelli, District 120**

**Senator David Valesky, Vice President Pro-Tempore NYS Senate**

**Congressman Dan Maffei*** ****Congressional schedule permitting***

8:30a.m. -10:15a.m Overview: Transmission and Distribution

**Dr. Samir Succar , Senior Energy Analyst, NRDC**

Distribution, Technologies, Flexible Demand

**Thomas King, President, National Grid USA**

**Executive Director Electricity Distribution & Generation**

Transmission: Power for Jobs - Hydro Power

**Richard Kessel, President & CEO, New York Power Authority (NYPA)**

Energy Efficiency

**Frank Murray, President & CEO, NYSERDA**

"Smart Grid;" Security Implications and Cost Allocation

**Garry Brown, Chairman, PublicServiceCommission (PSC)**

Integrating Renewables into the Grid; Moving New York Into the Right Direction

**Carol Murphy, Executive Director, Alliance for Clean Energy New York**

10:30 a.m -12 p.m. Panel Discussion with Morning Panelists

**Kit Kennedy, Council To Air & Energy Program, NRDC,** Moderator

All speakers will be on panel.

12:00- 2:00 BUFFET LUNCH - Greetings - Presentation - Keynote

**Congressman Mike Arcuri*** ****Congressional schedule permitting***

Presentation of Award to:

**Russ Cary, Supervisor Town of Fenner**

Keynote address

**Thomas King, President, National Grid USA**

***Morning program including breakfast & lunch*** **$40 adult $20 student or limited income**

2 p.m. Optional Tours (Choose One) * SUNY ESF: Wood Chips to Ethanol Process (Syracuse, NY) ;* Fenner Wind Farm (Fenner, NY); * Morrisville State Biodigester (Morrisville, NY);* Fitzpatrick Nuclear Plant (Scriba, NY) ;*NEW National Grid Distribution & Training Center (Liverpool, NY) $15 charge for tours

# 2009 Energy Symposium at Cazenovia College: April 17, 2009

**Cazenovia College** in conjunction with The Gifford Foundation, Syracuse Center of Excellence, and the Environmental Finance Center at Syracuse University, proudly present the

***FIFTH ANNUAL SYMPOSIUM ON ENERGY in the 21st CENTURY***

**SMART GROWTH & TRANSPORTATION**
**SOLUTIONS & OPTIONS FOR ENERGY CONSERVATION**
April 17, 2009 ~

**Program**
7:30 - 8 a.m. - Registration & Continental Breakfast
8 - 8:30 a.m. - Welcome and Introductions:
**Mark Tierno**, President, Cazenovia College
**Rhea Jezer**, Senior Lecturer, Environmental Policy & Symposium Chair
**U.S. Senator Kirsten Gillibrand** (via video)
**Joseph Boardman**, President and CEO, Amtrak

8:30 - 8:45 a.m. - ***What are the Options for Smaller Communities?***
**Matthew Dalbey**, Senior Policy Analyst, U.S. Environmental Protection Agency â€" Development, Community and Environment Division, Washington D.C.

8:45 - 9 a.m. - ***The National Movement for Smart Growth Planning***
**Geoff Anderson**, President and CEO, Smart Growth America, Washington, D.C.

9 - 9:15 a.m. - ***Smart Growth Planning in New York State***
**Paul Beyer**, Director of Smart Growth Planning, NYS Department of State

9:30 - 9:45 a.m. - ***The Federal Transportation Bill***
**Michael Arcuri**, United States Congressman 24th District

9:45 - 10 a.m. - ***Towards a Sustainable Transportation Future***
**Rich Kassel**, NRDC, Senior Attorney & Director of Clean Fuels and Vehicles Project

10 - 10:15 a.m. - ***Putting Alternative Fuels and Technologies on the Road***
**Ruth Horton**, Program Manager, NYSERDA

10:15 - 10:30 a.m. - ***Can We Afford What We Need?***
**Thomas DiNapoli**, New York State Comptroller

10:45 a.m. - 12:15 p.m. - **Panel Discussion with Morning Panelists**
**Moderator: Kit Kennedy**, Special Deputy Attorney General for Environmental Protection, Environment Protection Bureau

12:15 - 1:45 p.m. - **LUNCH** (included in registration)
**Buffet lunch catered by Cazenovia College Dining Services**
Keynote Speaker: **Joseph Boardman**, President and CEO, AMTRAK
**WHAT IS FAST RAIL? HOW IMPROVED RAIL CAN HELP PROMOTE SMART GROWTH & IMPROVE THE ECONOMY**
Introduction: **Dan Maffei**, U.S. Congressman, 25th District
2 p.m. - **OPTIONAL TRIPS/TOURS**
(1-4 hours depending on trip selected): ESF - Wood Chips to Ethanol Process; Fenner Wind Farm;Morrisville Biodigester; Fitzpatrick Nuclear Power Plan (Scriba, N.Y.)

# *CAZENOVIA COLLEGE PRESENTS:*

## FOURTH ANNUAL SYMPOSIUM ON ENERGY in the 21st CENTURY

***Seeking Solutions through Environmental Partnerships:***
***Government, Business, Environmentalists, Academics***

**April 11, 2008**

***FREE EVENT * SPACE LIMITED****
***REGISTER at www.cazenovia.edu/energy***

**Program**

7:30 - 8:00 a.m. Registration & Continental Breakfast

8:00 - 8:30 a.m.

**Welcome Remarks**
*Mark Tierno,* President, Cazenovia College

**Introductions and Overview**
*Rhea Jezer,* Senior Lecturer, Environmental Policy & Symposium Chair

**Making the Case**
*David J. Manning* , Executive Vice President, National Grid

8:30-8:45

**Merger of Environment, New Business and University**
*Ed Bogucz*, Executive Director, Syracuse Center of Excellence in Environmental and Energy Systems

8:45-9:00

**Cost of Wedges - Mckinsey Report - Costs, Solutions, Markets and Policy**
*Theo Spencer,* NRDC Senior Project Manager, Climate Center

9:15-9:30

**NYS Green Building Collaborative** - "Greening" Colleges, Schools & Businesses
*Jodi Smits Anderson*, Dormitory Authority, Director Environmental Programs

9:30-9:45

**New York State Environmental Perspective**
*Lois New,* Chief of Climate Programs and Partnerships, New York State Office of Climate Change

9:45-10:00

**Making the Case for Solar Energy**
*Richard R. Perez*, Atmospheric Sciences Research Center, SUNY-Albany

10:00 -10:15

**Cellulosic Ethanol**
*Thomas Amidon*, Professor and Director, Empire State Paper Research Institute at SUNY ESF

10:30 - 12:00

**Panel Discussion** Moderator with Morning Panelists
*Kit Kennedy,* Special Deputy Attorney General for Environmental Protection,
Environment Protection Bureau

12:15 -1:45 p.m. **LUNCH**:

**Introductions**: United States Congressman *Michael Arcuri*,
New York .State Senator *David Valesky*

**Luncheon Speaker**
***David J. Manning*** , Executive Vice President, National Grid
"Engaging the Customer: A Key Priority in any Successful Partnership"

2:00 pm **OPTIONAL TRIPS**: 1-4 hours, depending on trip (Must be arranged)
*ESF - Wood Chips to Ethanol Process/*Fenner Wind Farm/*Morrisville Biodigester/ *Fitzpatrick Nuclear Plant

To register or for more information go to: www.cazenovia.edu/energy or Rhea Jezer rjezer@twcny.rr.com

**THIRD ANNUAL SYMPOSIUM ON ENERGY in the 21st CENTURY**
**"ENERGY SUSTAINABILE COMMUNITIES"**
**April 20, 2007**

**Program**

7:30 - 8:00 a.m. Registration & Continental Breakfast

8:00 - 8:15 a.m. Welcome & Introductions

*Mark Tierno,* President, Cazenovia College

*Rhea Jezer,* Senior Lecturer, Environmental Policy & Symposium Chair

*Ira Rubinstein,* Chair, CEEP

8:15 - 9:00am **How to make the Bottom Line Both Green and Black**

**Overview**

*Ashok Gupta,* Director Air & Energy, NRDC

**Economics of the Maple Ridge Wind Farm**

*Bill Moore,* PPM Energy

**Sustainable Energy effects on the workforce**

*Ed Murphy,* Executive Director, Workforce Development Institute

9:00 - 10:45 **What Colleges and Communities Are Doing to Pursue Sustainability**

**New York City Sustainability Initiatives**

*Rohit Aggarwala,* Director, NYC Office of Long Term Planning and sustainability

**Syracuse & Sustainability**

*Matt Driscoll,* Mayor City of Syracuse

**Auburn & Sustainable Innovations**

*Timothy Lattimore,* Mayor, City of Auburn

*Mike Long,* City Manager/Director of Programs and Grants, City of Auburn

**SUNY Environmental Science and Forestry (SUNY ESF)**

*Neil Murphy,* President, SUNY ESF Campus Sustainable Practices and Initiatives

**Morrisville College**

*Ray Cross,* President Morrisville College, Bio-Digester Project

11 - 12:00pm **Panel Discussion**

***How Viable will Sustainable Communities be in this Century***

*Ashok Gupta,* Moderator Morning Panelists

12:00 -1:15 p.m.

**LUNCH:** Introductions: U.S. Congressman *Mike Arcuri,* N.Y.State Senator *David Valesky*

***Kit Kennedy,*** Special Deputy Attorney General for Environmental Protection, Environment Protection Bureau

**TOURS**: Leaving 1:30 p.m ($10 fee for bus). Morrisville College Bio-Digester (1 hr. RT) or Fenner Wind Farm (1 hr. RT) or FitzPatrick Nuclear Facility, Oswego (3 1/2 hrs. RT) Seating is limited for this **FREE** Symposium.

**REGISTER ONLINE** at www.cazenovia.edu/energy by April 6, 2007! This Symposium is the third in a series that will explore ways to meet an increasing demand for energy while ensuring a sustainable environment for future generations. The Symposium is purely educational in nature. The mission of this Symposium is to present a comprehensive understanding of the possibilities and to gain insights into possible solutions without endorsing any products, technology or positions. Join the academic community, statewide environmental and business community and elected officials on April 20, 2007 at Cazenovia College. For further information, contact Dr. Rhea Jezer, Cazenovia College, at rjezer@twcny.rr.com. Major sponsors include: Center for Economic and Environmental Partnership, Entergy, Sierra Club, New York Power Authority, NYSERDA

**ENERGY IN THE 21ST CENTURY**

**GLOBAL WARMING: FROM CRISIS TO SOLUTIONS**
**IDENTIFYING THE TECHNOLOGY & POLICY ANSWERS**
**FRIDAY, APRIL 21, 2006**
**CAZENOVIA COLLEGE, CAZENOVIA, N.Y.**

**PROGRAM**

***Registration and Continental Breakfast:*** **7:30 – 8:00 a.m.**
***Welcome and Introduction:*** **8:00 - 8:15 a.m.**
**Dr. Mark Tierno,** Cazenovia College President
**Dr. Rhea Jezer,** Symposium Chair
**Ira Rubinstein,** Center for Economic Environmental Partnerships, Inc.

**PROBLEMS & CHALLENGES 8:15 - 9:15 a.m.**

***Global Warming – An Overview***
Dale Bryk, NRDC
***Problems Facing New York State***
**Denise Sheehan**, Commissioner, NYS Dept. of Environmental Conservation (DEC)
***Climate Change Initiative – The Role of Banks & Insurance Companies***
**John Cusack** , President, Gifford Park Associates

**POSSIBILITIES AND SOLUTIONS: 9:15 – 10:30 a.m.**
***Energy Planning Options***
**Peter R. Smith**, President, NYS Energy Research & Development Authority(NYSERDA)
***Coal - Reducing Carbon Emissions***
**David Berg**, Chief Advisor/National Energy Policy, USDA
***Nuclear Energy – Poised for a Renaissance***
**Dr. Gilbert Brown**, Professor and Coordinator, Nuclear Engineering Program, University of Massachusetts, Lowell

***Biofuels***
**Congressman Sherwood Boehlert**, Chair, U.S. House Science Committee

***PANEL DISCUSSION: 10:45a.m. – 11:45a.m.***
***Global Warming: Vision and Reality*** Discussion to Feature Morning Speakers
Moderator: **Dan Cummings**, WSYR NewsChannel 9

**LUNCH: 12:00 -1:15 p.m.**
Greetings from U.S.Senator Hillary Rodham Clinton (video)

Keynote: **Direction for Energy in the 21st Century for the United States**

**Congressman Sherwood Boehlert**

**TOURS: Leaving 1:30 p.m.** Buses will be provided **FitzPatrick Nuclear Facility, Oswego (3 1/2 hrs.) or Fenner Wind Farm (1 hr. RT)**

# *Cazenovia College*

***in conjunction with Center for Economic and Environmental Partnerships, Inc.***

***Presents***

## *SYMPOSIUM ON ENERGY in the 21st CENTURY*

## *Problems and Solutions*

***April 15, 2005***

8:15a.m. – 4 p.m.

Registration and Continental Breakfast

Welcome and Introduction

**Dr. Mark Tierno**, Cazenovia College President

**Dr. Rhea Jezer**, Symposium Chair

***PROBLEMS AND CHALLENGES***

9:00 – 10:15 a.m.

Overview

**Eleanor Stein**, Albany Law School,Former Public Service Commissioner

Energy Generation and Global Warming

**Kit Kennedy**, National Resources Defense Council, (NRDC)

Electric Reliability

**Peter Savio**, New York State Energy Research Development Authority(NYSERDA)

***POSSIBILITIES AND SOLUTIONS***

10:15 – 11:15 a.m.

Wind Power

**Douglas Ward**, American Wind Energy Association (AWEA)

Solar Power

**Dr. Gay Canough**, NorthEast Sustainable Energy Association

Woody Biomass

**Tim Volk**, SUNY College of Environmental Science and Forestry

Fuel Cells

**John Olenick**, Chairman, NYS Fuel Cell Partnership

***PANEL DISCUSSION***

11:30a.m. – 12:30 p.m.

Forum: *What are the obstacles to renewable energy and how do we overcome them?*

Moderator – **Dan Cummings**, NewsChannel 9

Discussion with morning speakers

***LUNCH*** (Sponsored by Community Energy)

12:30 -2:00 p.m.

Greetings

**State Senator David Valesky,** Ranking member Senate Environmental Committee

Keynote Speaker

**Congressman Sherry Boehlert,** Chair, U.S. House Science Committee

***TOUR*** 2:00 p.m.

Fenner Wind Farm Tour –with Russel Carey, Town of Fenner Supervisor

Willow Bio Demo Farm with Tim Volk

Buses will be provided

This Symposium will explore ways to meet an increasing demand for energy while ensuring a sustainable environment for future generations. Join the academic community, statewide environmental business community and elected officials in discussing energy in the 21st century. Seating is limited for this free Symposium. Register online at www.ceepinc.org by March 26, 2005. For more information contact Dr. Rhea Jezer, Cazenovia College of Environmental Studies, at 315-727-0123 or 315-655-7368.