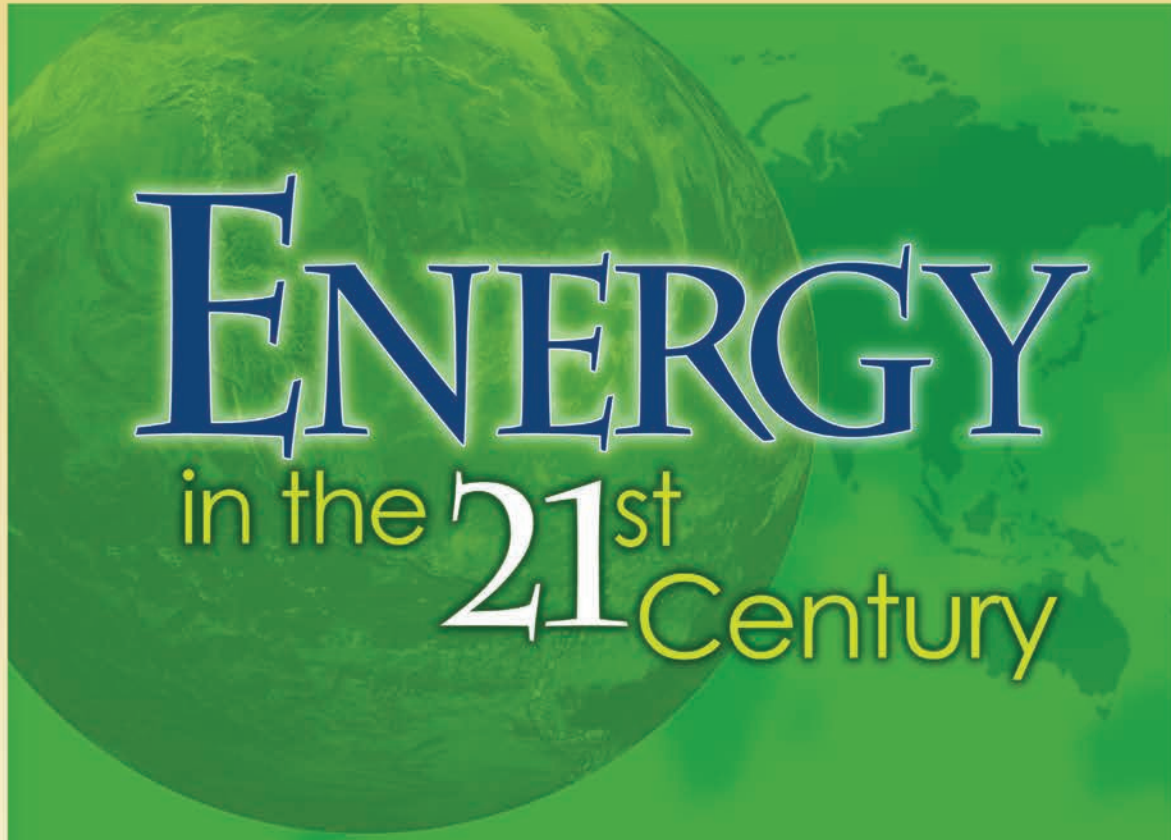


**TWENTIETH ANNUAL**  
**Symposium on Energy in the 21st Century**  
A Division of Energy21 LTD

APRIL 12, 2024



**CORPORATE, LABOR, ENVIRONMENTALISTS & GOVERNMENT**  
**Working Together Toward a Renewable Energy Future**

**PRESENTED BY**  
**Energy21**  
Rhea Jezer, Ph.D., President

The mission of the Symposium is to present a comprehensive understanding of the possibilities available for us to confront the problems and issues which are creating global warming, and to gain insights into possible solutions. This Symposium does not endorse any products, technology, individuals or positions.



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*Greetings and welcome to the Twentieth Annual Symposium on Energy in the 21st Century*



**RHEA JEZER, Ph.D** *President, Energy21 LTD*

*It is my pleasure to personally welcome you to the award winning Twentieth Symposium on Energy in the 21st Century.*

*With the effects of climate change becoming more real and more prevalent, it is time for all parts of our community to unite and take serious steps to mitigate this tremendous threat to our existence as we know it. It is time for all sectors and communities, labor, business, environmentalists, individuals, to work together to address the ways each sector can compromise with the others to achieve a goal of cutting the use of fossil fuels and replacing with renewable energy sources. At this point we are going way too slowly for us to save our planet, but your presence here today shows we are ready to change this course.*

*New solutions are being worked on and we will hear some of them today as we have over the last twenty years of the Symposium. But in order for us to hasten our production of renewable energy, every sector will have to support the need to approach this threat seriously enough to come to a consensus and perhaps compromise. U.S. Corporations will need to work with labor, as well as to commit to environmental protection, environmentalists will have to accept the needs of our labor force as well as the need to keep business in our country, and citizens will need to do their part in reducing consumption and accepting and understanding the needs of U.S. companies and our workforce. We also need and expect those we elect to focus on legislation and laws both to create a climate where business can thrive, workers can earn a livable wage, seriously protect the environment, without putting at risk underserved communities. Subsidies for renewable energy sources and uses need to be funded and fossil fuel production needs to be lessened if we are to slow the effects of climate change.*

*Each year, since our first Symposium in 2005, as today in 2024, we have highlighted new opportunities for us to consider. Hopefully in the near future we will hear of many more uses of resources which will help us find solutions. We have assembled experts to walk us through possibilities, as well as discuss how we hope to accomplish our goals.*

*Today I hope we will leave with a positive feeling for the future. We all need to be part of the solution, or we will remain part of the problem. Your presence today shows you are aware of the problems and are seeking the solutions. It is up to us today to learn and very importantly to widely spread the knowledge gleaned from our presenters to our communities, elected leaders, friends and family.*

*Please thank our speakers and importantly our sponsors for without whom we cannot hold this Symposium. Special thanks to Joannie Mahoney and the staff of SUNY ESF for graciously welcoming the Symposium at the magnificent Gateway Building.*

*Most of all thank you all for joining us today. Please stay in touch and look for updates in our newsletter. *Rhea**



# OUR SPEAKERS



## JONATHAN BINDER

Jon Binder is the DEC Deputy Commissioner, where he oversees the Division of Air Resources and its Office of Climate Change. He is responsible for the development and execution of

a wide range of efforts to reduce air pollutant emissions and help achieve the State's climate and clean energy policies. Jon is leading DEC's implementation of the State's ambitious and nation-leading Climate Leadership and Community Protection Act, most notably through the development of New York's economywide cap-and-invest program. He is also responsible for DEC's regulatory and permitting activities under the federal Clean Air Act and leads participation in the Regional Greenhouse Gas Initiative as well as serving as Secretary of RGGI, Inc. Board of Directors.

Previously Jon served for 15 years as DEC's lead attorney regarding climate change issues, most recently as Chief of the Bureau of Climate, Air, and Energy in DEC's Office of General Counsel. He provided legal support for all aspects of DEC's efforts to address climate change through reducing emissions and increasing resiliency, including participation in the Regional Greenhouse Gas Initiative as well as other regulatory programs including and Community Protection Act. Jon also represented DEC in administrative proceedings at both the State and federal levels regarding proposed energy projects. This included proposals for wind and solar farms, hydroelectric facilities, electric transmission lines, natural gas pipelines, and fossil fuel-fired generation.

Jonathan Binder is a graduate of Cornell University and Tulane University Law School.

Prior to being appointed Deputy Commissioner in Spring 2023, Jon served as a DEC attorney for 15 years. Jon focused on climate change issues as a lawyer too, most recently as Chief of the Bureau of Climate, Air, and Energy in DEC's Office of General Counsel. Jon is a graduate of Cornell University and Tulane University Law School. He resides in Alb



## THOMAS P. DINAPOLI

Thomas P. DiNapoli is the 54th Comptroller of the State of New York. He is widely known for his integrity, independence and steadfast leadership. Since taking office in

2007, Tom DiNapoli has aggressively fought misuse of public resources, strengthened one of the nation's top public pension funds. He has consistently spoken out against fiscal gimmicks, imprudent actions and government inefficiency.

Tom brought his passion for environmental quality to his present role as Comptroller. His Green Initiative promotes energy efficiency, purchasing low environmental impact products and reducing government waste to protect the environment and taxpayer dollars. The program determines whether the implementation of environmental programs by State and local government is consistent with requirements, and identifies opportunities for State and local government to protect and save money. It also promotes improvement in environmental performance by companies in the Common Retirement Fund (CRF) investment portfolio on crucial environmental issues such as climate change, to protect and enhance the long-term value of the Fund's assets. The Comptroller makes sure that CRF invests in renewable energy and other clean technology companies that meet CRF investment criteria. Since taking office, Tom has identified billions in misuse, waste and savings in the state and has been aggressive in environmental protection. One little known example is his compelling fossil fuel industry companies to enhance disclosure and reporting of material risks climate change poses to their business.

Prior to becoming Comptroller, Tom DiNapoli represented the 16th Assembly District for two decades. During his tenure, as chairman of the Environmental Conservation Committee, he earned a reputation as one of New York State's leading voices on environmental issues.

Thomas DiNapoli holds a master's degree from The New School University's Graduate School of Management and Urban Professions and B.A. magna cum laude from Hofstra University.







**TWENTIETH ANNUAL**

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

APRIL 12, 2024

**CORPORATE, LABOR, ENVIRONMENTALISTS & GOVERNMENT  
Working Together Toward a Renewable Energy Future**

**A G E N D A**

**7:10am-7:55am**

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**RHEA JEZER, Ph.D.**

President, Energy21, Symposium Director

**EDUCATING FOR THE FUTURE**

**JOANIE MAHONEY**

President, SUNY ESF

**ARE WE LOOKING AT “GREEN HYDROGEN”**

**MARK RUTH**

Lab Program Manager, Policy Analysis, NREL

**THERMAL ENERGY ON LARGE SCALE**

**JAY EGG**

Author and Consultant, Egg Geothermal

**THE “IRA” INFLATION REDUCTION ACT  
INCENTIVES FOR MANUFACTURING, NON-PROFITS,  
MUNICIPALITIES & INDIVIDUALS**

**DAVID FELDMAN**

Senior Financial Analyst, National Renewable Energy Laboratory NREL

**NYS INVESTMENT IN RENEWABLE ENERGY**

**TOM DINAPOLI**

NYS Comptroller

**LABOR AND THE CLIMATE FUTURE**

**GREGORY LANCETTE**

President, Building Trades of CNY

**ELECTRIFICATION OF TRANSPORT &  
DECARBONIZATION OF THE GRID**

**BART FRANEY**

Vice President, Clean Energy Development, National Grid

**NYS CAP & INVEST PROGRAM CONTRIBUTING TO  
OUR ENERGY FUTURE**

**JONATHAN BINDER**

Deputy Commissioner, DEC

**10:30am-11:45am**

**MODERATED PANEL DISCUSSION**

With morning speakers

**KIT KENNEDY** Moderator

Managing Director of the Power Division,  
Climate and Energy NRDC

**11:45-12:00pm**

**2024 ENVIRONMENTAL STEWARD AWARD**

Comptroller Tom DiNapoli

**12:00pm– 12:45pm**

**BUFFET LUNCH/NETWORKING AND SLIDES**

Sponsored by National Grid

**12:45pm – 2:30pm**

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President, MACNY

**JONATHAN BINDER**

Deputy Commissioner, DEC

**DAVE WASIURA**

Director, Region 4 USW

**JULIE TICHE**

President, NYLCV

**DAVID FELDMAN**

Financial Analyst, NREL

**KIT KENNEDY**, Moderator

Managing Director of the Power Division,  
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## OUR SPEAKERS



### JAY EGG

The future of thermal energy networks and geothermal energy is being written today, and Jay Egg is a leader in the field and has spent more than 30 years as an educator and advocate.

He has authored countless books and seminars on the topic.

After serving in the US Navy nuclear power field, Jay Egg began a career in mechanical design engineering & contracting. Jay is a global industry leader at the front lines where the heating and cooling of buildings comprises 40% of the world's energy budget. He serves as an expert consultant where he provides technical and education services in thermal energy and geothermal exchange consulting for clients ranging from developers and ESG funds to governments and institution. His projects include thermal energy networks, datacenters, healthcare and educational campuses, multifamily communities and cities and municipalities.

Jay sits on several technical code committees internationally, notably the technical committee for the IAPMO Uniform Mechanical Code. Jay serves on the Board of Directors for Geothermal Rising. He has co-authored two McGraw-Hill Textbooks focused on geothermal HVAC technologies and continues to write curriculum and lecture on the merits of Clean Heating and Cooling technologies.

Jay Egg holds degrees from Brigham Young University and Oklahoma State University.



### DAVID FELDMAN

David Feldman is a Senior Financial Analyst for the National Renewable Energy Laboratory in the Washington D.C. Office in the Strategic Energy Analysis Center. NREL is the only

federal laboratory dedicated to research, development, commercialization and deployment of renewable energy and energy efficiency technologies. His expertise is in renewable energy project finance and solar energy market analysis.

With more than a decade of experience in the energy and financial industries, in his position at NREL he helps the organization carry out a wide range of analytical activities related to financial, policy and market developments in the solar industry. He also works on economic and market analysis of renewable energy technologies, renewable energy policy and corporate finance in the energy sector.

David has published and presented widely on topics related to renewable energy project finance, public capital in the renewable energy sector, innovative financial models, and solar market development.

Before working for NREL, David was the Assistant Director of Finance for Soltage, a developer and owner/operator of solar power projects, and an Associate at The Jordan Edmiston Group.

David Feldman holds an MBA from the Yale School of Management, with a focus in finance, and Amherst College with a BA in philosophy.

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# OUR SPEAKERS



## BART FRANEY

Bart Franey has over 25 years experience working in various utility leadership roles in National Grid, an energy company operating in the UK and US. Bart is currently

Vice President of National Grid's Clean Energy Development, responsible for identifying innovative investment drivers and infrastructure programs that address the electrification of transport and decarbonizing the electric grid. In his role as head of Clean Energy Development, Bart has successfully led high performing teams in the identification of a multibillion dollar portfolio of approved regulated transmission investments that enable the clean energy transition.

Prior to leading business development activities, Bart was head of transmission planning, asset management, and systems data where he established a new system data department and oversaw National Grid's transmission planning and capital work plan development.

Bart has over 10 years experience as Director of Regulation and Pricing, providing written and oral testimony in state and federal rate proceedings and testified in several legislative hearings on energy related topics.

Bart Franey holds a bachelor's degree in physics from State University of New York at Oswego and Master of Science in Engineering Management from Syracuse University.



## RHEA JEZER, Ph.D

Rhea Jezer is President of Energy21, and founded and directs the Annual Symposium on Energy in the 21st Century. She served on the faculties of SUNY ESF and Cazenovia College.

Dr. Jezer is a noted environmental consultant and policy advisor to eco-businesses, candidates, environmental groups and elected officials for both major parties. She was an environmental advisor for Sen. Hillary Clinton for nine years, worked closely with Gov. George Pataki, heading the CNY campaign for the 1996 Clean Water/Clean Air Bond Act, and on Pataki's Superfund Reauthorization working group. She served on several environmental transition teams, most notable for Pres. Bill Clinton, AG Eliot Spitzer and Gov. Andrew Cuomo, and Sen. Hillary Clinton.

Rhea is chair of the CNY Sierra Club and also served as chair of the Sierra Club Atlantic Chapter, Chair of the Dewitt Democratic Party, and was a Congressional Candidate twice. As a Congressional Fellow, she penned major legislation for the encouragement of women and under-represented minorities to enter the fields of science and math, which was included in the Federal Higher Education Act.

Rhea Jezer is an active member of the NY League of Conservation Voters Board, was a founding member of New York Interfaith Power & Light, serves or served on many boards including CNY American Red Cross, Onondaga County District Attorney Advisory Council, CNY Friends of Chamber Music, and Syracuse Interreligious Council.

Rhea is also a noted musician and choral conductor and for years performed as a harpsichord soloist, including at the Skaneateles Music Festival. She founded and was soloist for the Syracuse Camerata, a CNY Baroque Orchestra.

Among her many awards are the Post Standard Achievement Award Greening USA "Greening our Community Advocacy Award", NAACP Humanitarian Award, National Organization of Women "Woman of Power" Award, Congressional Fellowship in Women & Public Policy, InterFaith Works Leadership Award, Midwood H.S "Most accomplished Alumna in Science and Technology award" Comptroller Thomas DiNapoli's "Outstanding Service to New York State Award", Brooklyn College Lifetime Achievement Award, Arise "Community Service Award", and the National Sierra Club Alliance Award.

Dr. Jezer holds a Ph.D from Syracuse University, MA from Columbia University Graduate Studies, and a BA from Brooklyn College, as well as a certificate in Gender Studies from Syracuse University.



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# OUR SPEAKERS



## KIT KENNEDY

Katherine (“Kit”) Kennedy is Managing Director of the Power Division, Climate and Energy Program at the Natural Resources Defense Council (NRDC), with special expertise in energy efficiency, renewable energy, global warming solutions and air and water pollution. Her major issues are curbing pollution, environmental justice, green enterprise, climate, energy, air and water. NRDC is a non-profit international environmental protection advocacy group staffed by some 500 scientists, lawyers, and policy advocates across the globe.

Kit has worked at NRDC for nearly thirty years. From 2007 to 2010, she took leave to serve as Special Deputy Attorney General for Environmental Protection where she was responsible for the management, supervision, and direction of the New York State Attorney General’s Office Environmental Protection Bureau. Her work at the Attorney General’s Office included work on a diverse and challenging set of environmental issues across New York State and nationally.

In November 2012, Kit was appointed to the NYS Ready Commission, one of three climate resilience commissions established by Governor Cuomo after Superstorm Sandy.

Kit was the Timothy B. Atkeson Environmental Lecturer in Law at Yale Law School, where she directed the Yale Environmental Protection Clinic. She has also taught as an Adjunct Professor at Fordham University School of Law.

Kit serves on the board of the NY League of Conservation Voters Education Fund and is a member of the executive committee of the New York State Bar Association’s Environmental Law Section. In 2015 Kit was the honoree of the Eleventh Annual Symposium on Energy in the 21st Century for her dedicated environmental policy work for New York State and the entire country.

Kit Kennedy is a magna cum laude graduate of Harvard Law School and Harvard College. Kit has been moderator for the Symposium on Energy almost since its inception



## GREGORY LANCETTE

Greg Lancette is the President of the Central-Northern New York Building & Construction Trades Council, which represents approximately 5,000 construction workers and 17 member unions of highly skilled workers in a wide array of crafts. The object of the Council is to bring the needs of unions from all building-related trades together in an effort to protect the welfare of workers and learn from one another. In this capacity he oversees local jobs and works with the NYS Legislature toward funding for major infrastructure projects to create fair jobs. Most recently, he was deeply involved in legislation that helps minimize barriers in accessing geothermal heating and cooling systems in NY State. He is also presently involved in the planning process of the CHIPs initiative bringing Micron to Central New York. Greg oversees the apprenticeship program and the 150,000 square feet of training facilities, which has graduated over 1,735 students over the last decade, to prepare quality workers to help improve construction across New York State.

As the Business Manager of Plumbers and Steamfitters Local 81, Greg negotiates, implements, and applies contracts with multiple employers, municipalities, and universities. He is also President of the New York State Pipe Trades Association as well as its Political Director.

With vast experience of working in the alternative dispute resolution industry, Greg is known for his highly negotiation skills, work with nonprofit organizations, collective bargaining, budgeting, and coaching.

Greg is an active community member and serves on the boards of the FRWIC Construction Task Force, Clean Energy Jobs Coalition, and is Chair of the Onondaga Cultural Resources Trust, and Chair of the Village of North Syracuse Planning Commission.

Gregory Lancette graduated from the Steamfitter/Pipefitter Apprenticeship program and the Process/Comfort Piping Systems. He is a graduate of Henninger High School.





# OUR SPEAKERS



## JOANIE MAHONEY

Joanie Mahoney is the President and CEO of SUNY College of Environmental Science and Forestry. Ms. Mahoney is the first woman to lead SUNY ESF.

Joanie has been instrumental in the Discovery Challenge process, expansion of ESF as an instrumental partner with government to address pressing issues like climate change and intrusion of invasive species in our waterways. She functions as point person on COVID-19 matters and preparedness.

Prior to ESF, Joanie Mahoney served as Onondaga County Executive for 11 years and oversaw all aspects of a county government, which served 460,000 residents. During her tenure as county executive, she earned national recognition for her environmentally friendly stewardship.

Before her elective office, Joanie worked as an attorney both in private practice with the Harris Beach law firm and for five years as a criminal prosecutor in the Onondaga County District Attorney's Office.

As County Executive, Joanie was the recipient of the 2012 Symposium on Energy in the 21st Century Award.

Joanie Mahoney holds a Bachelor of Science from Syracuse University's School of Management and her juris doctor from SU's College of Law.



## MARK RUTH

Mark Ruth is the National Renewable Energy Laboratory's (NREL's) Analysis Coordination Laboratory Program Manager. In that role, Mark is leading development of an analysis strategy

for NREL that addresses key issues for the energy system to decarbonize. He is also leading efforts to coordinate NREL's analysis projects so that the efforts use consistent data, are performed in context with each other, and conclusions and their limitations are clearly communicated.

Previously, Mark managed the Industrial Systems and Fuels Analysis Group at NREL as they investigated opportunities to improve energy use and reduce emissions in the industrial and transportation sectors. He also led the multi-laboratory analysis of the technical and economic potential of the H2@Scale concept which quantified potential hydrogen market sizes and impacts. In addition, Mark led analyses of the impacts of electrons-to-molecules technologies on the electricity grid.

Over Mark's 30 years at NREL, he has an extensive history of developing methods to value opportunities in the energy sector as well as technical analyses focusing on hydrogen and bioenergy systems.

Mark Ruth holds a B.S. from the University of Colorado.

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**RHEA JEZER**

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21	Thomas O'Brien	200	Richard Brooks	773	Michael Jarvis
22	Rich Evans				



## OUR SPEAKERS



### JULIE TIGHE

Julie Tighe is the President of New York League of Conservation Voters (NYLCV) and New York League of Conservation Education Fund (NYLCVEF). As President, she oversees

the organizations' policy, political, development, programmatic, and communications teams. Due in part to the League's and her advocacy, the State enacted the Climate Leadership & Community Protection Act – the nation's most progressive climate law, congestion pricing, the \$3 Billion Restore Mother Nature Bond Act, the Accelerated Renewable Energy Growth & Community Benefit Act, and several other pieces of legislation to reduce emissions from the transportation and buildings sectors. She also helped secure increased State funding for water infrastructure and New York City funding for parks and open spaces.

Previously, Julie served for more than eleven years at the NYS Department of Environmental Conservation (DEC). Following her role as Assistant Commissioner of Intergovernmental and Legislative Affairs she served as Chief of Staff. She was instrumental in advancing the agency's legislative priorities including reform of the State's Brownfield Cleanup Program and a ten-year, \$1 billion Superfund authorization. Julie was a primary negotiator for the landmark \$2.5 billion Clean Water Infrastructure Act, the incorporation of the Climate Change program into New York's historic \$300 million Environmental Protection Fund, three successful Constitutional Amendments, and the most comprehensive electronics recycling law in the country.

Julie Tighe holds a BA in Human Biology from the University of Albany and has completed master's work in Health Policy and Management at SUNY Albany School of Public Health.



### RANDY WOLKEN

Randy Wolken is the President & CEO of MACNY—The Manufacturers Association which serves over 300 companies employing more than 50,000 people within a 26-county

region in Central Upstate New York. He is also President & CEO of the Manufacturers Alliance of New York, a coalition of manufacturing groups representing over 2,500 companies and over 425,000 manufacturing employees throughout New York State.

Joining MACNY in 2001, Randy has dedicated over 20 years to improving the business climate in Upstate New York. Prior to joining MACNY, he served as the Executive Director of the Samaritan Center; worked as a Senior Budget Analyst for Onondaga County Government; and served as an officer on active duty with the 10th Mountain Division at Fort Drum in Watertown, New York.

Randy Wolken is currently the Co-chair of the Regional Economic Development Council of Central New York (CNY REDC) and Chair of the Brady Faith Center. Randy is a former board member of numerous boards to include the NYS Taxpayer Advisory Council, Upstate New York District Export Council, the NYISO Consumer Advisory Council, Onondaga County Industrial Development Agency (OCIDA), and the United Way of CNY.

Randy Wolken holds a Bachelor of Science degree from the U.S. Military Academy at West Point and a Masters in Public Administration degree from Syracuse University.

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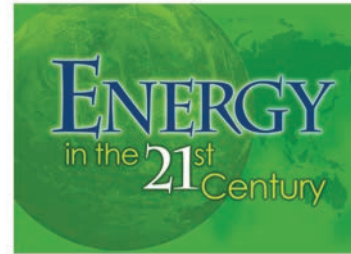
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Christopher Baycura, Media production  
Daniel Jezer, for assistance and support  
Ora Jezer, Online access  
Rhea Jezer, organizer and chair  
Kit Kennedy, Superb moderator

*Thank you to our speakers who give  
up so much of their time to be  
with us today.*

*Thank you to SUNY ESF and its  
staff for hosting our Symposium*



## OUR SPEAKERS



### DAVE WASIURA

Dave Wasiura is District 4 Director for USW (United Steel Workers), which is the largest industrial union in the U.S., Canada and the Caribbean. It represents men and women in

nearly every industry. District 4 covers New York, New Jersey, Delaware, New England states and Puerto Rico.

Prior to his present appointment, Dave held several positions in USW. He was Assistant to the Director, was Organizing Coordinator for the District and worked in the USW Political Department in Pittsburgh, PA where he was involved in coordinating the USW national field program throughout multiple locations and campaigns across the country. He also previously served as the District Next Gen Coordinator and serves on the Western New York Area Labor Federation Executive Board, and is a member of the New York State AFL-CIO Executive Council.

Dave's first involvement as a political union activist began with his volunteering to work the Kerry-Edwards Presidential campaign in 2004, going door to door engaging with Union members on issues critical to working families in North Western Pennsylvania.

In 2013, Dave returned to District 4 as a staff representative, working with local union members in New Jersey and New England before returning to Buffalo to serve as the District 4 organizing coordinator.

Dave Wasiura has bargained contracts and organized new members across a wide range of industries throughout the district. He has served as the district's Next Gen Coordinator and as a member of the Western New York Area Labor Federation Executive Board. Since December 2019, he has served on the New York State AFL-CIO Executive Council.

As District 4 director, Dave represents USW members across Connecticut, Delaware, Massachusetts, Maine, New Hampshire, New Jersey, New York, Rhode Island, Vermont and Puerto Rico. David Wasiura is a four-year graduate of the USW's leadership-scholarship program.



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