



DESIGNING THE CLEAN ENERGY FUTURE NOW!

SESSION 1: Both / And - Cutting Carbon: Embodied AND Operational



Katrin Klingenberg, Executive Director and Co-Founder of (Passive House Institute US) PHIUS

“Critical interdependence of decarbonizing the grid and reducing energy use by buildings”

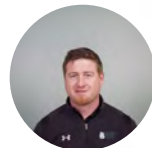
Katrin Klingenberg is an architect who has driven adoption of the Phius Standard throughout the past 20 years. Passive building methodology originated in the United States and Canada in the 1970s and was enhanced in Germany in the 1990s. Klingenberg reinvigorated it in the United States in 2003 when she built the first passive house in Champaign-Urbana. Her home sparked considerable interest and she went on to found the non-profit organization Phius (Passive House Institute US), dedicated to making passive building a mainstream best practice. She developed and delivered building-science based training on how to design and build energy efficient and zero-energy buildings. Over the past ten years she has collaborated with federal and state government agencies to tailor the Phius Standard for each of the nine US climate zones— an adaptation that cost-optimized passive building and has driven widespread adoption. She has also consulted internationally to adapt the standard for climate zones around the world. Phius continually refines the standard to meet increasingly stringent efficiency goals, to make buildings meet carbon neutrality goals, and to make buildings the core building block of the 21st century electrical grid: resilient, digitized, distributed and interactive. Klingenberg earned a B.S. in Architecture from the Technische Universität in Berlin, Germany, earned an M.S. in Architecture from Ball State University, and is a licensed architect in Germany.



Stephen Tilly, AIA, CPHC, LEED AP, Principal at Stephen Tilly, Architect

“Why we stopped doing Deep Energy Retrofits- The problem of decarbonizing existing buildings”

Stephen Tilly, AIA, CPHC, LEED AP, grew up near Chicago in a house designed by his mother, who later became an interior designer. After a B.A. in English Literature from Grinnell college in Iowa, he went to M.I.T. for a graduate degree, with a year off as a VISTA volunteer. After hands-on work as a general contractor, he did research, planning and urban design in Boston, Washington and New York and became a partner in Design Coalition, a much-published design firm that helped pioneer New York's historic Soho district in the 1970s and 1980s. With Elizabeth Martin, Mr. Tilly founded a mission-based studio in Dobbs Ferry focused on environmentally friendly and socially useful projects. He has served on local land use committees and boards and is the Chair of the Advisory Board of the National Trust for Historic Preservation's Lyndhurst Historic Site. For the National Trust for Historic Preservation and the Association for Preservation Technology, he has spoken and written on the essential connection between preservation and sustainability.



Kevin Shepard, Director of Research and Development of Belter Tech

“Low Embodied Carbon Concrete Trends”

Kevin Shepherd has been working in the construction industry for 10 years. He began his journey as a carpenter, and upon realizing firsthand how much waste is attributed to the industry, decided he wanted to help in the research and development of more sustainable construction systems. A major part of Kevin's philosophy is that in order to create a more sustainable world, the world must work together. With this in mind, Kevin has and continues to form strong business partnerships with various companies and works closely with them to aid in the accomplishment of their sustainability goals. Additionally, Kevin strives to educate others on the importance of sustainable development.



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SESSION 2: Heating, Cooling and Ventilation Approaches



Cramer Silkworth, *Founder and Chief Engineer at Baukraft Engineering, PLLC*
“Right Sized Mechanicals for Highly Efficient/ Passive Building Design”

Cramer Silkworth is a Professional Engineer providing mechanical system design for energy-efficient houses. Since 2012 he’s done consulting, design, and verification for residential and small-scale commercial projects, and has also taught courses in building science at Parsons the New School for Design, The City College of New York, and The Rhode Island School of Design, as well as the Passive House Consultant/Designer course.



John P Ciovacco *President of Aztech Geothermal, CGD CGI*
“Ground-Source Heat Pumps- Best Practices and Available Incentives”

John Ciovacco, the President of Aztech Geothermal, LLC., is a consultant to over 15 Thermal Energy Networks (TEN) projects in the Northeast, including several regulated utilities. He chairs the educational sessions at the New York Geothermal Energy Organizations, NY-GEO Annual Conference which is widely regarded as one of the largest and most comprehensive in the nation. John is the Immediate Past President of NY-GEO, an AEE Certified GeoExchange Designer (CGD), IGSHA Certified Geothermal Inspector (CGI) and Accredited Installer (AI), and a BPI Certified Contractor. He received his B.S. degree in Mechanical Engineering from Union College.



Donovan Gordon, *Director of Clean Heating and Cooling, NYSERDA*
“District Systems/Thermal Energy Networks”

Donovan Gordon is Director of Clean Heating & Cooling for the New York State Energy Research and Development Authority (NYSERDA). He leads New York State’s efforts to develop markets that support high-efficiency clean thermal technologies such as Air, Ground, and Water Source Heat Pumps, Thermal Energy Networks (TENS), Thermal Energy Storage (TES), and Waste Heat Recovery (WHR). He is charged with conceptualizing, driving and implementing a portfolio of products to encourage and enable customers and partners to invest in low-carbon clean heating and cooling systems and with advancing New York’s progress toward self-sustained markets. Also, implement educational, workforce training, and marketing / outreach initiatives for scalable growth of clean heating and cooling technologies partnering with public, private, and academic institutions. Donovan received a bachelor’s degree in business management from St. Francis College and a Master in Business Administration from NYU, Stern School of Business.





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SESSION 3: Theory into Practice



Joshua Ginsberg, PhD., President of The Cary Institute for Ecosystem Studies

“Living the Mission: Moving to a Net Carbon, Positive Future for the Cary Institute”

Joshua Ginsberg is President of Cary Institute of Ecosystem Studies, an independent ecological research center in New York’s Hudson Valley. Dr. Ginsberg holds a PhD and MA from Princeton University and a BS from Yale University. His career in conservation science spans 35 years and several continents, having worked with the Wildlife Conservation Society (WCS) for 18 years in a number of leadership positions, ending his tenure as Senior Vice President of the Global Conservation Program. Dr. Ginsberg is on the boards of the Ocean Foundation, the Open Space Institute and has recently served on the board of TRAFFIC, the wildlife trade monitoring network, the Foundation for Community Health, and the Salisbury Forum. He is a member of the advisory council of the American Museum of Natural History’s Center for Biodiversity and Conservation, Yale University’s Institute for Biospheric Studies, and serves on the Science, Climate and Stewardship Committee of Scenic Hudson.



Professor Sulan Kolatan, RA, AIA, Principal of KOL/MAC Architecture + Design, Board Member of Center for Sustainable Urbanism (CSU), Graduate Architecture and Urban Design (GAUD) Professor at Pratt Institute

“Nature-Based Shoreline Infrastructure Design: Architectural Opportunities in Environmental Concretes for an Adaptive System”

Ms. Kolatan holds a Dipl.-Ing. Arch. degree from the Rheinisch-Westfälische Technische Hochschule Aachen, and a Master of Science degree in Architecture and Building Design from Columbia University Graduate School of Architecture (GSAPP). She has taught at many prominent schools of architecture as a visiting professor or visiting Chair, including Columbia University, University of Pennsylvania, Cornell University, TU Darmstadt, and SCI-Arc. Her work is in the permanent collections of many international institutions, most notably, the MoMA New York (USA); the Canadian Centre for Architecture Montreal (Canada); and the Centre Georges Pompidou Paris (France). She has received numerous awards and honors, including the 40under40 award, representation in the US National Pavilion at the International Architecture Biennale Venice (2004), and nominations to two European environmental awards: INDEX (Denmark, 2009) and Zumtobel Group Award for Sustainability and Humanity in the Built Environment (Austria, 2008). She has served as a distinguished jury member for the Mayor’s Office on competitions such as the Camlica Digital Broadcasting Tower Istanbul and continues to be involved in international projects.



James Hartford AIA, LEED AP, CPHC, Principal of River Architects, PLLC

“Centering an Architectural Practice on Sustainable Design”

James lead the design for the first of its kind Passive House-Certified organic cidery and events space for Seminary Hill Ciders in Callicoon, NY, bringing the firm’s brewery experience with Passive House rigor. James participated in the NYSERDA-organized trip to the Netherlands to study the Energie Sprong program for market-scale Net-Zero retrofits to public housing, and applied that learning to the firm’s designs for the NYSERDA RetrofitNY Pilot Program for the Troy Housing Authority. James is the founder, board member, and past-President of Passive House Alliance US- Hudson Valley Chapter. James organized and lead one of the most active PHAUS chapters in North America, which continues to thrive in the fertile Net-Zero market in New York State. In that capacity James has brought Certified Passive House Builder instruction to Newburgh, NY, and Certified Passive House Consultant training to Schenectady, NY with significant funding from NYSERDA. These programs were the first of their kind in Upstate NY. James earned his Master of Architecture from the University of Buffalo and a Bachelor of Arts in English and Fine Arts from the University at Albany. He has studied abroad in Germany and in England, and has taught upper level design studios at Kyonggi University’s Graduate School of Architecture in Seoul, South Korea.



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SESSION 4: Unlocking the Economics of Sustainability – Incentives and Support



Andrew Chintz CNTR, *Financing Specialist for NYC Accelerator*
“Financing 101”

Andrew Chintz develops and implements programs at the intersection of finance and building decarbonization. His approach is enhanced by a seasoned career spanning 35 years as a senior level municipal and real estate finance expert, primarily in diverse roles at MBIA, a municipal bond insurer. Mr. Chintz holds several board positions for non-profit, municipal and community development organizations. He received a B.A. from Connecticut College, an M.S. from Columbia University in Historic Preservation/Urban Planning, and a Certificate in Sustainability Finance from Columbia University. Mr. Chintz is currently the Financing Specialist for the NYC Accelerator, a technical assistance program sponsored by the City to support building owners in meeting the City’s climate action laws. Previously, he led Demand Aggregation for NYSERDA’s RetrofitNY initiative, which adapts the European “Energiesprong” model to drive a scalable, whole building approach for a net zero energy building solution for affordable housing.



James Geppner, *Senior Project Manager on NYSERDA’s Large Building’s Team*
“NYSERDA Financing You Should Know About”

James is with NYSERDA’s Large Building’s team in New York City. His background is in finance, behavioral science and the development of new markets with a strong focus on climate markets and the ingredients necessary for these markets to function. He is a graduate of NYU and of SGIB’s investment banking program.



Susan Morth, *CEO of Energy Improvement Corp.*
“Discussion on Commercial Property Assessed Clean Energy (C-PACE) Financing”

Susan Morth is the CEO of the Energy Improvement Corporation, a NY State C-PACE program administrator. Ms. Morth leads overall operations, including the development and implementation of OPEN C-PACE, a public/private partnership that provides commercial property owners innovative financing for energy efficiency and renewable measures. Ms. Morth is the Founder and Chair of the EIC Advisory Committee, a national C-PACE working group which includes large commercial property managers and specialty finance companies. Ms. Morth has over 20 years of capital markets experience including the development of new financial products. Prior to EIC, Ms. Morth was a Partner at Empirical Research Partners and Sanford C. Bernstein & CO LLC.



Michele Pitale, MD, *Managing Director at Counterpoint Sustainable Real Estate (SRE)*
“Unlocking Capital Resilience: How C-PACE Revolutionizes Commercial Real Estate Finance”

Michele Pitale heads PACE portfolio management for Counterpoint which invests at the intersection of real estate and energy. With expertise in energy retrofits as well as resiliency and green roofs, Dr. Pitale has overseen over \$1B of PACE assessments. Prior to focusing on sustainable energy finance, Dr. Pitale was an Assistant Professor at Albert Einstein College of Medicine and a surgeon in the Critical Care Medical Department at the National Institutes for Health in Bethesda, MD.



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