

2023 NECC Session Moderators, Speakers, and Bios

Keynote Speakers

Governor JB Pritzker, 43rd Governor of Illinois *(recorded remarks)*



Governor JB Pritzker was sworn in as the 43rd Governor of Illinois on Jan. 14, 2019. In 2021, Governor Pritzker proposed and signed a comprehensive clean energy bill, making Illinois a national leader on climate action and the first state in the Midwest to pass a law phasing out fossil fuels. Before becoming governor, Pritzker founded 1871, the non-profit small business incubator in Chicago. Since its creation, Chicago has been named one of the top ten technology startup hubs in the world, and 1871 was named the best incubator in the world.

Jeff Marootian, Senior Advisor, Office of the Secretary *(recorded remarks)*



Jeff Marootian is President Biden's nominee to serve as the Assistant Secretary for Energy Efficiency and Renewable Energy at the United States Department of Energy. He is currently a Senior Advisor to Energy Secretary Jennifer Granholm. He previously served as a Special Assistant to the President in the White House and was a member of the Biden-Harris Transition Team. Prior to joining the Biden-Harris Administration, Jeff was the Director of the District Department of Transportation, where he piloted sustainable transportation technologies and led the city's early adoption of the Transportation and Climate

Initiative.

Ram Narayanamurthy, U.S. Department of Energy



Ram Narayanamurthy is the Deputy Director of the Building Technologies Office. In this role, he oversees BTO's range of activities supporting advancements in building energy efficiency and decarbonization, including research & development (R&D), market stimulation and deployment, and building codes. Ram has more than two decades of experience supporting the development and deployment of building technologies. Prior to joining DOE, he led the buildings program at the Electric Power Research Institute (EPRI), where his team focused on strategies for decarbonization of the building stock in both existing and new construction.



Sessions

TOPIC	MODERATOR	SPEAKERS
New Federal Funding and Assistance Opportunities for Building Energy Codes	Chris Perry	Harry Bergmann, Chris Perry, Jeremy Williams
Decarbonizing Energy Codes: Weighing Effectiveness, Adoptability, and Enforceability	Mike Waite	Mike Waite, Adam Berry, Cornelia Wu
Navigating DOE Energy Code Funding: Past, Present, and Future Opportunities	Ian Blanding	Chris Burgess, Diana Burk, Joe Nebbia, Christina Volpi
(Discussion) BPS and Codes: Making Sure the Left Hand Knows What the Right Hand is Doing	Amy Boyce, Kim Cheslak	Crystal Egelkamp, Emily Hoffman, Duane Jonlin
What's the Latest in the IECC and 90.1 Model Code Development Cycles?	Chris Perry	Richard Lord, Michael Tillou, Gayathri Vijayakumar
What States and Cities Ought to Know About Macro Trends Impacting Multifamily Properties	Cherylyn Kelley	Karla Butterfield, Rob Foley, Todd Nedwick
(Discussion) Building Up the Workforce: Strategies to Reach Students and Working Professionals	Sarina Sawyer	Bob Clark, Robert Hattier, Sanyo Kapur, Shaunna Mozingo
The Next Decade: The Role of Energy Codes in Supporting State and Local Goals	Alison Lindburg	Ashley Runyon, Angela Tovar, Will Vicent
Building Performance Standards: Adoption, Implementation, and Lessons Learned	Joshua Kace	Gina Bocra, Gavin Bowman, Joshua Kace, Jessica Price
Lessons Learned with Electrification Stretch Codes	Shilpa Surana	Courtney Anderson, Kelly Cunningham, Amy Rider
The Suite Life: Benefits and Challenges of Adopting all Codes	Jim Meyers	Adam Berry, Shaunna Mozingo, Chris Perry
How Valuing Resilience Demonstrates Energy Codes Benefits for Grid Stability and Life Safety	Joseph Sollod	Ellen Franconi, Patricia Gomez, Kristen Hagerty
Saving Water and Saving Energy in Growing Communities	Lauren Urbanek	Dan Cole, Gary Klein, Jonah Schein
(Discussion) Leveraging Relationships to Encourage Program Buy-In and Improve Code Compliance	Corie Anderson	Mekha Abraham, Matt Belcher, Jackie Dadakis, Tess Studley
Embodied Carbon: Taking a Lifecycle Approach to Codes	Maggie Kelley Riggins	Alexandre Bigonesse, Mike Waite
Performance Based Compliance: From Modeling to Quality Assurance	Kim Cheslak	Maria Karpman, Ryan Meres, Michael Tillou



Mekha Abraham, TRC



Mekha Abraham, Senior Project Manager, TRC Mekha has more than ten years of experience working directly on a broad range of residential energy efficiency programs, both in a management and technical capacity to support the design and implementation of innovative energy efficiency programs. She has worked with clients across the United States, including Oregon, Washington, Idaho, California, New York, New Hampshire, and Maine. With a background in architecture, Mekha has a strong knowledge of building systems and construction practices, especially in the residential sector. She is skilled in the technical analysis of energy data and advanced building systems for both retrofit and new construction residential and commercial projects. Mekha serves as the Project Manager on the BetterBuiltNW program with the Northwest Energy Efficiency Alliance (NEEA).. BetterBuiltNW is focused on accelerating the use of energy-efficient building practices in residential construction in the Northwest across Oregon, Washington, Idaho, and Montana.

Corie Anderson, MEEA



Corie Anderson is a Senior Building Policy Associate at MEEA. In this role, Corie is responsible for tracking and supporting energy code adoption efforts across the 13-state region. They also track energy code compliance and coordinate efforts for the energy code support program in Nebraska. In addition, Corie leads the planning of MEEA's Annual Midwest Building Energy Codes Conference. Corie holds a Master's in Urban Planning and Policy from the University of Illinois at Chicago, with a concentration in Environmental Planning and Policy. They are also an accredited LEED Green Associate.

Courtney Anderson, City & County of Denver



Courtney Anderson leads Net Zero Energy New Buildings and Homes for the City & County of Denver in the Office of Climate Action, Sustainability and Resiliency. As a member of the Buildings and Homes Team, she works to ensure Denver is on track to meet its climate target of all new buildings achieving net zero energy by 2030. She also serves at national subcommittee levels with the International Code Council to advocate for more sustainable codes nationally. Her background as an architect includes experience in residential, commercial, green building consulting, sustainability, codes and standards, design, construction administration, and research. She received her master's in architecture from Ball State University, where she explored her passion for design, sustainability, and traveling the world.

Matt Belcher

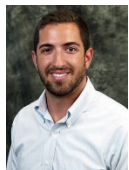


Matt Belcher is an experienced builder/developer and nationally recognized consultant, educator, and author on the business of energy efficient "resilient" building and development. He has been actively involved in the construction industry for over four decades, including many years as a top building codes official. He is the current Chairman of the National Association of Homebuilders Building Systems Council Board of Trustees. While serving as Director of the University of Missouri's High Performance Buildings Research Center for more than a decade, Mr. Belcher worked to educate building industry professionals, governmental



administrators and students on International Building, Mechanical and Energy Conservation Code structure, methodology and application. Mr. Belcher was elected by the Board of Directors of the International Code Council to serve on the new 2024 ICC Commercial Energy Standard Development Committee. He served on the Energy and Water Committee for development of the then new ICC International Green Construction Code and has served several terms on ICC's Energy Code Committee and Commercial Building Code Committee. He also served on a steering committee of the Net Zero Energy Home Coalition to develop a North American Net Zero Energy Standard. Belcher has also worked with ACTIVE HOUSE Alliance in the development of their European based specification and was selected to build the first prototype home in the United States. He has also consulted with the Chinese Ministry of Housing and Urban-Rural Development in the Development of the "Green Star" Green Building Standard in China.

Harry Bergmann, U.S. DOE



Harry Bergmann leads the building performance standards (BPS) and zero energy codes portfolio within the Department of Energy's Office of State and Community Energy Programs (SCEP). Prior to joining SCEP, Harry developed and led the Building Technologies Office's (BTO) building performance standards portfolio (BPS) and the Building Energy Data subprogram. Harry's career across DOE has focused on how data-driven policies and programs can work to improve the efficiency of and rapidly decarbonize new and existing buildings. Prior to joining DOE, Harry worked for The Energy Coalition, supporting local government agencies with turnkey services for energy-efficiency improvements. Harry has a master's in environmental science and management from the Bren School at the University of California, Santa Barbara, and bachelor's degrees in geography and philosophy from The George Washington University.

Adam Berry, Colorado Energy Office



Adam Berry is the Senior Program Manager for Building Codes at the Colorado Energy Office (CEO), a non-regulatory office of the Governor of Colorado. In his role, Adam manages Colorado's work on building energy codes, including managing Colorado's development of advanced energy codes for statewide adoption through the Colorado Energy Code Board, working with local governments to adopt and implement highly efficient building energy codes and stretch codes for electrification and on-site renewable energy, and managing state funding and technical assistance programs for advanced energy code adoption, enforcement, workforce development, and training. Additionally, he works with the CEO legislative affairs team to support development of new legislative proposals for energy codes and decarbonization of new buildings across Colorado. Prior to joining CEO, Adam spent four years working on federal energy policy in the United States Senate for Senator Jeff Merkley (D-OR) and the Senate Energy and Natural Resources Committee. During his time in the Senate, Adam crafted policies for improving building energy efficiency and decarbonizing existing buildings and led the efforts to include nearly \$40 billion in incentives for building energy retrofits, energy code adoption and enforcement, and industrial and manufacturing efficiency in the Infrastructure Investment and Jobs Act and the Inflation Reduction Act. Adam holds a bachelor's degree in political science from Wichita State University.



Alexandre Bigonnesse, Natural Resources Canada



Alex Bigonnesse is a Technical Advisor working at Natural Resources Canada, supporting the development of the National Building Code to better align regulations in the building sector with the evolving needs of Provinces and Territories. Alex contributed to the publication of the 2020 National Building Code which introduced Energy Performance Tiers leading to Net-Zero Energy Ready performance levels. With experience in energy research and development, Alex understands the implications of Net-Zero emission buildings and knows that solutions are variable.

Ian Blanding, U.S. DOE



Ian Blanding is a Physical Scientist with the U.S. Department of Energy (DOE) Building Technologies Office. In this role, he helps manage the Building Energy Codes Program technical assistance initiatives to support successful energy code adoption and implementation in states and local governments. Prior to joining DOE, Ian worked as a Research Analyst at the Pacific Northwest National Laboratory and a Building Policy Manager at the Midwest Energy Efficiency Alliance. He holds a Master of Community Planning degree from the University of Cincinnati and a B.S. in Environmental Policy and Public Administration from Central Michigan University.

Gina Bocra, NYC Department of Buildings



Gina Bocra, RA, LEED Fellow, is Chief Sustainability Officer at the New York City Department of Buildings (DOB). She brings over 25 years of experience in sustainable design. At the Department of Buildings, Gina is working on implementation of New York City's One City Built to Last Plan and the Climate Mobilization Act, supporting the laws designed to address benchmarking, energy codes, audits and retro-commissioning, and lighting and sub metering, while also contributing to new legislation to increase energy efficiency in New York City's building stock. She leads a DOB team of specialists charged with developing procedures to enforce the Energy Code, and supports continued development of the New York City Building Code to accommodate advances in sustainability. Gina serves as the Chair of the Local Law 97 Advisory Board. Prior to joining the DOB team, Gina spent 16 years as a Director of Sustainability in the private sector where she led or consulted on nearly five dozen LEED registered or certified projects. She continuously volunteered with the US Green Building Council (USGBC) for twenty years, assisting with the technical development of multiple LEED rating systems, serving as a Subject Matter Expert on three LEED exams, and was a Founding interim-officer of the National Capital Region USGBC Chapter. She is a past-Chair of the LEED Steering Committee.

Gavin Bowman, City of Chicago

Amy Boyce, IMT



Amy is IMT's Director of Federal Engagement and Technical Strategy. As such, she develops and deploys local, state, and national level strategies to achieve broad-scale transformation through codes and building technology. Amy leads the Energy Efficient Codes Coalition, is a member of the Residential Consensus Committee for the development of the 2024 IECC, and served as part of the Building Performance Standards working group within ASHRAE's Task Force on



Building Decarbonization. Amy's extensive experience in the DC market has spanned the areas of building design and construction, sustainability, and energy efficiency. Her recent work includes leading a team in performing energy audits and designing solutions for energy and cost savings for commercial buildings. Prior to that, Amy worked as a mechanical engineer and served as the Technical Specialist for all energy-related credits in the LEED department at the U.S. Green Building Council. Amy earned her MBA from Georgetown University and holds a Bachelor of Science in Mechanical Engineering from Pennsylvania State University. She is a licensed engineer, Certified Energy Manager, and a LEED AP.

Chris Burgess, MEEA



Chris is the Technical Lead for MEEA's Buildings Team, working with stakeholder groups to improve energy code compliance for new residential and commercial buildings. He is a licensed architect and a LEED Accredited Professional. Chris began his career at a Chicago neighborhood development non-profit, working as the Program Director for their construction trades training program. Prior to coming to MEEA, he also ran an architectural practice for 20+ years educating his clients about integrating energy efficiency and the principles of sustainable design into their projects.

Diana Burk, NBI



Diana Burk is a project manager at NBI. She focuses on strengthening national codes as a member of the IECC Commercial Consensus Committee, supporting cities and states interested in advancing building codes, and conducting research and analysis to support new energy code requirements. She leads the development of Illinois's 2023 stretch energy code and has been consulted in the development of code for multiple cities and states including Washington D.C., New York State, Vermont, and Minnesota. She is also the Principal Investigator to a DOE-funded project (EMPOWERED, 2020) to streamline the permitting and inspection process across multiple states for distributed energy resources. Diana holds a BS in Physics from Davidson College and an MS in Electrical Engineering from Princeton University.

Karla Butterfield, Steven Winter Associates



Ms. Butterfield is a Sustainability Director at Steven Winter Associates, Inc., working with residential buildings. Her expertise is in sustainable consulting services, program certification support and implementation of high-performance building technologies. With architects, developers, builders, and homeowners, she develops specific sustainability strategies for both new construction and renovations.

Kim Cheslak, PNNL



Kim is a building energy policy leader and content matter expert that guides the future of building energy policy throughout the United States. Her work includes assisting jurisdictions to improve their use of codes and energy policies to achieve their goals and assist in achieving national goals. Before joining PNNL, Kim led the codes and policy team at New Buildings Institute in development, implementation and thought leadership around energy codes and building performance standards to assist U.S. cities and states to meet their climate goals, with a



strong focus on building decarbonization and building-grid integration. Kim has over 10 years of experience focusing on the role of codes and standards to move the needle on the design and construction of high performance buildings. Her career has included commercial and residential code compliance studies, working with local governments to maximize savings through adoption of and compliance with code, and managing sustainability portfolios. Kim was instrumental in the formation of Washington DC's Green Building Division.

Bob Clark, College of DuPage



Bob is the HVACR Coordinator at the College of DuPage in Glen Ellyn, Illinois. The College of DuPage is one of the largest community colleges in the nation and is located 20 miles west of Chicago. Bob has a background in HVACR, industrial maintenance, automation, instrumentation, and electrical control systems and strategies. Bob has earned his doctorate from the University of Wisconsin-Stout in Career and Technical Education: Identification of Systems Thinking Fundamentals Within Post-Secondary HVACR Programs. Bob is a member of multiple national HVACR educational groups and has developed a world class HVACR program and lab at the College of DuPage.

Dan Cole, IAPMO



Daniel Cole is Sr. Director of Technical Services at International Association of Plumbing and Mechanical Officials (IAPMO). He was a licensed Journeyman Plumber in the State of Illinois and is currently a member of the American Society of Plumbing Engineers (ASPE) and ASPE Main Design Standards Committee. He received the ASPE Scientific Achievement Award in 2018. He has published several articles on Hunter's curve and the fixture unit methodology. His research focuses on the plumbing investigations performed at the National Bureau of Standards (now NIST) with a particular interest in the work of Roy B. Hunter. He also has a focus on promoting water efficiency standards for the built environment.

Kelly Cunningham, Pacific Gas & Electric



Kelly Cunningham currently serves as a program manager on Pacific Gas & Electric's Codes and Standards team. Her role includes managing the program responsible for the development of codes and standards enhancement proposals to advance California's Energy Code, leading the Local Energy Codes program which offers technical assistance to jurisdictions pursuing energy ordinances, and supporting the evolution of national building energy model codes.

Jackie Dadakis, Green Coast Enterprises



Jackie is the Chief Executive Officer of Green Coast Enterprises. She stepped into this role in 2020, taking over from Founder, William Bradshaw. Jackie joined the company in 2013 to launch GCE Services, a consulting firm that provides services to property owners, municipalities, and utilities seeking to be more energy efficient. In 2017 she moved into the role of Chief Operating Officer for Green Coast Enterprises taking responsibility for the operating entities including the successful launch of the Pythian Market in 2018. She has been recognized as one of The Gambit's 40 under 40, New Orleans Magazine People to Watch and New



Orleans City Business Women of the Year. Before joining Green Coast, Jackie worked for Clean Energy Solutions, Inc. as a senior consultant developing innovative financing strategies for energy efficiency and creating community-utility partnerships for the Southeast Energy Efficiency Alliance and the Greater Cincinnati Energy Alliance under the Department of Energy BetterBuildings Program. Jackie holds a Masters in City Planning from the Massachusetts Institute of Technology and a B.A. in Economics from Claremont McKenna College. She is a board member of Rebuilding Together New Orleans and teaches as an Adjunct Lecturer in the Tulane Masters of Sustainable Architecture program.

Crystal Egelkamp, Colorado Energy Office



Crystal Egelkamp is the Benchmarking & BPS Program Manager at the Colorado Energy Office. In this role, Crystal manages the State's benchmarking program, Building Performance Colorado, as well as leads the Building Performance Standards (BPS) Task Force. Crystal also works on other building policy and program areas including building codes, beneficial electrification, and workforce development. Before moving to Colorado, Crystal lived in Chicago and worked with various municipalities on their building codes and benchmarking policies. In her free time, Crystal likes to explore all the nature that Colorado has to offer.

Rob Foley, ICAST



Rob Foley is a Technical Solutions Specialist with ICAST. Located in New Mexico, Rob supports energy efficiency programs across the country with multifamily and one-and-two family affordable developments. He conducts energy audits, capital need assessments, and energy modeling for ICAST projects. Rob has more than 25 years in the construction industry. Rob is a licensed general contractor, BPI Building Analyst, is NATE certified and an EPA certified Renovator.

Ellen Franconi, PNNL



Ellen Franconi joined PNNL in 2018, she is a Senior Energy Research Engineer supporting the Building Energy Codes Program. Over her 30-year career in building energy efficiency, Ellen has worked as a researcher and consultant - supporting 2 for-profit businesses, 1 non-profit organization, and 3 DOE research laboratories. Much of her technical work involves individual and sector-level building performance analyses, whole building simulation modeling, and measurement and verification of energy savings. She works collaboratively with industry partners to promote advancement of methods and deployment of leading-edge applications. Currently, Ellen investigates the role of codes in grid-interactive efficiency buildings.

Patricia Gomez, Miami-Dade County's Office of Resilience



Dr. Patricia Gómez is a leader in planning and implementing climate adaptation and mitigation programs, with over 20 years of direct experience working on engineering, resilience, and sustainability-related opportunities in both the public sector and private sectors. Currently serving as the Director of Energy and Deputy Chief Resilience Officer in Miami-Dade County's Office of Resilience, Dr. Gómez has successfully implemented several projects during her county career that have increased the sustainability and resilience of county operations and the community, while reducing electricity consumption. These projects include the implementation of the



enterprise-wide utility billing management software, the Building Efficiency 305 (BE305) initiative, the Climate Action Strategy, and on-site solar installations for county facilities. Dr. Gomez holds a Ph.D. in Industrial Engineering from the University of Miami and has numerous certifications, including Professional Engineer in the State of Florida, LEED AP BD+C accredited professional, and Certified Energy Manager. Dr. Gómez is a Board member of the Envision Review Board (ERB) affiliated with the Institute for Sustainable Infrastructure (ISI).

Kristen Hagerty, IREC



Kristen Hagerty is IREC's Senior Director of Workforce Development. Her recent work includes a collaboration with ICC, IAEI, PNNL, NASFM, and Slipstream to educate building safety professionals about the safety and efficacy of grid interactive efficient buildings, solar, energy storage, and electric vehicle charging infrastructure. She specializes in the design of immersive learning experiences for professionals who can impact the adoption of clean energy. She has a degrees in Instructional Design and Mechanical Engineering and combines this technical knowledge along with her experience in experiential education classrooms in Baltimore and as a Peace Corps Volunteer in West Africa.

Robert Hattier, International Brotherhood of Electrical Workers Local 134



Robert Hattier is a Business Representative for IBEW Local 134 with a focus on Renewable Energy, and serves as the Executive Director for the Illinois IBEW Renewable Energy Fund. During his over 20 years in the solar industry, Bob has been involved with numerous renewable energy projects ranging from off-grid cabins to residential, commercial and utility scale interactive systems. Bob has been teaching courses on Solar, Energy Storage, Electric Vehicle Charging and Green Building since 2008 and has offered courses throughout the Midwest region. Bob, a City of Chicago Supervising Electrician, holds many industry specific credentials including NABCEP's PV Installation Professional, PV Technical Sales Professional and PV System Inspector certifications. Additionally, he is the only IREC Certified PV Master Trainer in the Midwest. Bob's dedication to advancing the renewable energy industry can be seen in his involvement on several Board of Directors (NABCEP, MREA), codes and standards development (NFPA 855, NEC), committees (Solar Ready vets, National Clean Energy Workforce Alliance, Climate Jobs Illinois), education development projects (Electrical Training Alliance PV, EVITP, ESAMTAC), and allied professional training (IREC PV Inspection, Firefighter Safety and PV, Solar Plan Review and Inspection). Bob manages, develops curriculum, and is an adjunct professor for the Triton College Renewable Energy Technology Degree program. Additionally, he provides train-the-trainer classes on renewable energy systems for IBEW instructors, high school teachers, and community college instructors state-wide through the Illinois IBEW Renewable Energy fund.



Emily Hoffman, NYC Department of Buildings



Emily Hoffman was recently appointed as the Director of Building Energy & Emissions Performance and will oversee the implementation of Local Law 97 in NYC. Prior to this appointment, Ms. Hoffman served for nearly 10 years as the Director of Energy Code Compliance for NYC's Department of Buildings. She led the first NYC-wide energy code compliance program that has ensured compliance for over 20,000 new buildings to date and updated the NYCECC over 3 code cycles to nearly 30% energy savings. Ms. Hoffman is also heavily involved in local and national energy code development – leading the development of the NYCECC, IECC and participating in the development of ASHRAE 90.1, 229P and NYSERDA Stretch Code. Ms. Hoffman was awarded the Energy Professional Development of the Year award in 2019 and 2020 from the Association of Energy Engineers, her team won the Green Builder Sustainability Award for the category “Large Municipality” in 2019, and she was named an NYC Climate Hero in 2020.

Duane Jonlin, City of Seattle



Duane Jonlin, FAIA, Energy Code and Energy Conservation Advisor, Seattle Department of Construction and Inspections | Duane Jonlin is responsible for development of the Seattle Energy code, and for eight years chaired the Energy Code TAG for the Washington State Building Code Council. At the US national level, he is Chair of the IECC Commercial Energy Code Consensus Committee for development of the 2024 IECC and is a voting member of the ASHRAE 90.1 Committee. Prior to taking his position at the City of Seattle, Duane was a principal at NBBJ, with 30 years' experience designing complex projects as a technical architect. He is a featured speaker nationally on issues of energy efficiency and energy regulations, a member of the American Institute of Architects College of Fellows and a Senior Fellow at the New Buildings Institute.

Joshua Kace



Joshua Kace has spent his career working at the intersection of sustainability, energy and technology. He brings 13 years of experience in energy engineering for commercial and industrial buildings, sustainability consulting for commercial real estate, and software development for climate/decarbonization technologies. He helped to start and grow the Energy Management and Engineering Departments at CodeGreen, a leader in ESG/Energy consulting for commercial real estate. Over his career, Joshua has performed over 75 ASHRAE Level II or higher energy audits / retro-commissioning studies of primarily commercial and industrial buildings, and overseen teams that have performed 100's more. He has also been involved with the development of numerous energy technology products/projects over his career, from real-time energy management to wireless sensor/metering systems to portfolio energy management tools / data management systems. Joshua holds a B.S. in Mechanical Engineering from Columbia University and a LEED AP O+M accreditation from US Green Building Council. He also obtained Certified Energy Manager (CEM) and Certified Measurement & Verification Professional (CMVP) certifications from the Association of Energy Engineers.



Sanyo Kapur, Villiage of Hoffman Estates



Sanyo Kapur is currently the Building Official with the Villiage of Hoffman Estates, Illinois. She is the President of Northwest Building Officials and Code Administrators, an ICC affiliated Illinois chapter. She also serves on the Executive Board of Illinois Council of Code Administrators. She is a Certified Building Official and LEED AP. She has a diverse background with twenty two years of experience in architecture and code administration including healthcare architecture, LEED project planning, sustainability projects, ICC code enforcement, and construction management. In her prior roles, she was the Building Official in the City of Naperville and the Village of Palatine. She has also managed complex residential and commercial projects throughout Chicagoland in her role as Senior Associate with a prominent Healthcare Architecture Firm. She has a passion for driving adoption of Energy Efficiency and Energy Conservation codes and employing technology in code enforcement.

Marie Karpman, Karpman Consulting, LLC



Maria Karpman CEM, BEMP, LEED AP, has over 20 years of experience in building science, energy modeling, and energy code. She is a voting member of the ASHRAE Standards 90.1, 140 and 229 committees, has led development of the whole building performance-based compliance options and simulation guidelines for multiple code and beyond-code programs including NYStretch Energy, MA Stretch Energy, EPA ENERGY STAR Multifamily Program and the large-scale modeling-based incentive programs for new and existing commercial and multifamily buildings. She is a principal investigator on a multi-year DOE/PNNL research project to facilitate quality assurance and quality control of performance-based submittals. Maria has developed and conducted numerous training on the energy code and energy modeling. She holds advanced degrees in mechanical engineering and computer science and is the principal of Karpman Consulting.

Cherylynn Kelley, IMT



Cherylyn is IMT's Manager of Building Energy Codes and Policy. She supports policy development and implementation, and actively participates in code development and adoption processes that dictate the energy efficiency of new construction throughout the U.S. Cherylyn manages two DOE code compliance studies that support successful implementation of codes in residential and large complex buildings. Prior to joining IMT, Cherylyn was a Senior Energy Policy Analyst at the Missouri Department of Natural Resources' Division of Energy where she led the development of stakeholder-driven projects such as the Partnering with Missouri Communities: Roadmap to Resilience. She directed the Division's legislative activities, supported emergency response, and provided training in energy efficiency to real estate professionals. Cherylyn earned her Bachelor of Science degree in Environmental Science from the University of Missouri and is working towards a Master of Business Administration at William Woods University.



Gary Klein, Gary Klein & Associates



Gary Klein, President of Gary Klein & Associates, Inc. has been intimately involved in energy efficiency and renewable energy since 1974. One sixth of his career was spent in the Kingdom of Lesotho, the rest in the United States. Since the early 1990s he has led the effort to incorporate “hot water as a system” into the core principles of building science. After serving 19 years with the California Energy Commission, he has provided consulting on sustainability since 2008, with an emphasis on the water-energy-carbonhealth connection.

The benefits of right-sizing premise plumbing and water heating systems are currently at the top of his list. Klein received a BA from Cornell University in 1975 with an Independent Major in Technology and Society with an emphasis on energy conservation and renewable energy. The International Association of Plumber and Mechanical Officials (IAPMO) recognized his efforts in 2014 presenting him their Green Professional of the Year award. In 2015 the Department of Energy awarded him the Jeffrey A. Johnson Award for Excellence in the Advancement of Building Energy Codes.

Alison Lindburg, MEEA



Alison Lindburg is the Buildings Director at MEEA, where she leads the Buildings Team and works to improve energy efficiency in buildings in the Midwest via energy codes and market transformation strategies such as energy benchmarking. Prior to MEEA, Alison was the director of the Buildings policy program at the Minnesota non-profit organization Fresh Energy, and also served on the Board of Directors for the U.S. Green Building Council of

Minnesota and the Technical Advisory Committee of the GreenStar residential remodeling standard. Previously Alison was a program director for Minnesota non-profit Dovetail Partners, working in rural areas to promote sustainability and local economic development through green building demonstration projects, community education and contractor training. Prior to Dovetail, Alison worked for a Twin-Cities urban development firm, where she helped write and implement its green building program. Alison has a B.A. in Architecture with a focus on sustainable design, and a minor in Spanish from the University of Minnesota, Twin Cities. In her spare time, Alison paints, plays piano, reads science fiction and practices yoga.

Richard Lord



Richard Lord is a Senior Fellow with 50 years of experience in the design and application of commercial air conditioning equipment and controls with expertise in systems, fluids, refrigerants, heat transfer, heat exchanger design, software, controls, diagnostics, commercial efficiency and building standards and codes. He is also an ASHRAE Fellow. He is located in Monteagle, Tennessee, and is member of Advanced Technology Organization working on refrigerants, commercial equipment advanced technology and systems

innovation. He is also involved in industry standard, regulations, and research and is the incoming chair off ASHRAE 90.1, Chair of ASHRAE 90.1 AES, and a member of ASHRAE 189.1, ASHRAE 196, ASHRAE 205, ASHRAE 207, CSA 424, chair of CSA 401, CSA Scooper, California CEA, UL60335-2-40, AHRI 340/360, AHRI 550/590, AHRI System Steering Committee, vice chair of AHRI Safe Transition Task Force and several other industry committees. Over his career, Lord has worked on the design of commercial HVAC



equipment including heat exchanger design, air- and water-cooled chillers, rooftops, splits systems, air handlers, advanced controls systems, and refrigerants. For the past several years, he has led industry initiatives to expand the systems approach to include not only the equipment but the full application in a building. He also has been involved in the multiple refrigerant transitions that have occurred over the past 30 years and is conducting many technical studies for new refrigerant selections for the new global warming potential (GWP) phasedown regulations as well as involvement in Carrier and global environmental initiatives.

Ryan Meres, RESNET



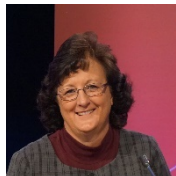
Ryan Meres has 16 years of experience in energy and water efficiency, energy policy and building energy codes. As the Program Director for RESNET, Ryan currently leads numerous programs, including implementation of RESNET's HERSH2O whole-house water efficiency standard; initiatives to get energy and water efficiency valued in the real estate transaction process and oversees RESNET's National Buildings Registry. Ryan holds a Bachelor's Degree in Architecture from the Savannah College of Art and Design and lives in Hubert, NC with his wife and their three children.

Jim Meyers, SWEEP



Jim Meyers is the Buildings Program Director at the Southwest Energy Efficiency Project (SWEEP) and directs the building efficiency and electrification program. He leads programs to advance energy efficiency in buildings through building energy codes, benchmarking programs, decarbonizing building codes and the importance of electrification in the built environment. Working with national, state, and local building coalitions to improve building performance to ultimately reach zero energy buildings. Jim serves on International Code Council committees and leads stakeholder collaboratives in Southwest states to support the building industry with adopting policies and construct buildings to these new standards.

Shaunna Mazingo, Mazingo Code Group, LLC



Shaunna Mazingo: President, The Mazingo Code Group, LLC. In addition to being a plans analyst and inspector for jurisdictions, Shaunna takes great pride in assisting jurisdictions, in the U.S. and Internationally, in adopting their newer Building and Energy Codes and providing education on those adopted codes. Shaunna consults and teaches on the full family of I-codes but is best known for her work in Energy Codes. She has conducted multiple residential and commercial building studies in various states, has been involved on many code development committees locally and nationally, and serves as a Code Circuit Rider in 3 states. She has served as a building inspector for the China and U.S. Solar Decathlon Competitions, co-authored the "2018 Energy Code Essentials" for ICC and has been awarded the Department of Energy's Jeffrey A Johnson Award, ICC/IMT's Standard Bearer's Ward and Southwest Energy Efficiency Project's Leadership in Energy Codes award, all for her work in the advancement of building Energy Codes and building performance. Shaunna is a past president of the Colorado Chapter of ICC, recipient of the Chapter's Beryl Wallace Award and President's Award, and is the Co-Chair of the Colorado Chapter's Education Committee.



Joe Nebbia



Joe Nebbia is a national building codes and building science expert with 21 years of experience in policy and regulatory analysis, including 17 years spent working on buildings and construction related issues. He develops and conducts code trainings in multiple states and operates a code technical assistance service in Maryland and New York. He serves as the Operations Director for the DOE Zero Energy Ready Home Program and performed the same function for the predecessor program, the DOE Builders Challenge. As a technical consultant, he works on indoor air quality related issues for the ventilation industry and recently lead an effort to publish an ASTM test method for evaluating PM2.5 indoor air quality sensors.

Todd Nedwick, National Housing Trust



Todd Nedwick is the National Housing Trust's Senior Director of Sustainability Policy. Todd leads NHT's engagement with public and private stakeholders to advance the use of housing and energy resources for affordable housing. He works to ensure that utility, state, local, and federal entities provide equitable investment to improve the efficiency of affordable multifamily homes and advance proven best practices in efficiency program design and implementation to help meet the needs of affordable housing building owners and residents. Todd holds a B.A. in Political Science from American University and a Master's in Public Policy from the University of Maryland, School of Public Policy.

Chris Perry, U.S. DOE



Chris Perry is an Engineer with the U.S. Department of Energy (DOE) Building Technologies Office. He participates in IECC and ASHRAE Standard 90.1 code development technical committees and directs energy code projects that enhance building energy efficiency, grid interactivity, and resiliency. Before joining DOE, Chris worked as Research Manager at the American Council for an Energy-Efficient Economy (ACEEE), a Sustainability Consultant at JDM Associates, and an Engineer at URS Corporation. He earned a M.S. degree in Engineering Management from George Washington University and a B.S. degree in Industrial Engineering from Pennsylvania State University. Chris is a registered professional engineer in Washington, DC.

Jessica Price, City of Madison



Dr. Jessica Price is Sustainability and Resilience Manager for the City of Madison, where she works to develop and implement policies, programs, and strategies that advance climate resilience, sustainability, and environmental justice. Top priorities include climate action to meet Madison's ambitious climate and energy goals; investments in equitable, no- and low-carbon transportation and city fleet vehicles; and improving the energy efficiency of affordable housing and commercial buildings. Prior to joining the Mayor's Office, Jessica served as Renewable Energy Strategy Lead for the Nature Conservancy in New York. Jessica has a PhD in Landscape Ecology and an MS in Conservation Biology from the University of Wisconsin-Madison.



Amy Rider, Building Decarbonization Coalition



Amy Rider is the Director of Policy Acceleration for the Building Decarbonization Coalition where she works to collect and disseminate best practices for eliminating building-related pollution. She has held positions with local government agencies and consulting firms for more than 20 years, working to optimize local climate action through knowledge sharing, behavior change and technology implementation. She holds a bachelor's degree in Energy Management and Design and a master's degree in Water Resources Policy and Planning. Outside of work, she describes herself as a tree-hugging, sports-loving bibliophile with a not-so-secret love of social science fiction and creating new (though not always successful) recipes with her children.

Maggie Kelley Riggins, SEEA



Maggie Kelley Riggins is SEEA's Senior Program Manager where she manages the energy efficient building code portfolio and the building-oriented pilot project models for Southern local governments to increase energy efficiency as a solution for residential, commercial, and municipal buildings. Maggie is laying the landscape for equity through climate and workforce in energy efficiency, believing that we need to understand the "why" behind building efficiency in order to see better outcomes for all building occupants.

Ashley Runyon, Kentucky Office of Energy Policy



Ashley Runyon joined the Office of Energy Policy as the Assistant Director of Energy Assistance 3 years ago. Her work is centered around energy affordability, environmental justice, and workforce development. During her time with the Office Ashley has launched a statewide energy affordability workgroup that has tackled many issues and focused on eliminating silos between private, public and nonprofit sectors to better serve citizens. Her prior position as Director of Child Centered Services at the Cabinet for Health and Family and Bachelor's Degree in Sociology from the University of Louisville brings a different lens and perspective to Energy Policy.

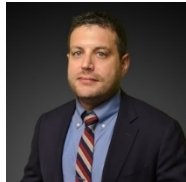
Sarina Sawyer, SEEA



Sarina Sawyer serves as SEEA's workforce training and partnerships manager where she supports emerging approaches to workforce development at the nexus of energy, transportation, housing, and public health. She is passionate about equity, energy justice, compassion, and tangible solutions. She brings over 10 years of work experience in housing finance, environmental advocacy, local government, and comprehensive planning.



Jonah Schein, EPA



Jonah Schein is the National Program Manager for Homes & Buildings at the U.S. Environmental Protection Agency's (EPA) WaterSense® Program. Jonah is a self-professed water nerd who has spent his career focused on water efficiency; first via desert agriculture and for the last two decades, through high performance buildings. He has overseen the technical development and implementation of the WaterSense

labeled homes program since its inception. He has also led numerous efforts to better understand, and influence water use in the field. In addition to the WaterSense labeled homes program, these have included the EPA Water Score for multifamily properties as well as several standards, research reports, and papers focused on modelling, quantifying, and understanding water use. Jonah lives in Washington, DC with his wife and their dog Jilly, who can usually be heard in the background on any phone or conference call he takes while working from home. In his free time, Jonah enjoys biking, running, swimming, hiking, camping, climbing, traveling, and just about any activity that lets him play outside.

Joseph Sollod, ICC



Joseph W. Sollod is the Sustainability, Resilience and Innovation Associate at the International Code Council and staff member of the Alliance for National and Community Resilience. At the Code Council, Joseph contributes to highly visible sustainability, resilience and innovation initiatives, including the Global Resiliency Dialogue, ICC's Decarbonization Strategy, the ICC Energy Team, the Code Council's Off-Site Construction

Initiative, ICC Government Relations, and administration of the U.S. Technical Advisory Group to ISO Technical Committee 59 and Subcommittee 19. He brings a wealth of acquired knowledge in climate change and adaptation, environmental policy, global environmental issues, sustainable development and buildings, and community resilience. Prior to joining the Code Council, Joseph participated in updating the Planning for Natural Disaster Debris guidance document with the U.S. Environmental Protection Agency and served as a solar permitting specialist for TRC Environmental Corporation. A graduate of Drew University in Madison, N.J., he has a bachelor's degree in environmental studies and sustainability, with minors in anthropology and political science. He also holds a Master of Science degree in urban sustainability from the City College of New York.

Shilpa Surana, 2050 Partners, Inc.



Shilpa Surana has more than a decade of experience ranging from sustainability consulting to modeling high performance and net zero buildings. She leverages her consulting and energy modeling experience in advancing building codes and appliance standards at both state and national level. She is a voting member of the 2024 IECC Residential Economics,

Modeling and Whole building metrics subcommittee. Along with her interest in advancing net zero design and supporting market transformation efforts in emerging technologies, she has extensive experience in project management, client management and stakeholder engagements to deliver high quality results. She was the first recipient of the Net Zero Fellowship, Energy Trust of Oregon grant in 2017-2018. Shilpa holds a Bachelor of Science in Architecture from India with two Masters of Science



degrees from Carnegie Mellon University and London School of Economics and Political Sciences. She loves to hike and explore the outside with her husband and two kids.

Tess Studley, NEEA



Tess has worked in the energy efficiency sector for over a decade and is currently a Program Manager at the Northwest Energy Efficiency Alliance (NEEA) leading the energy codes training and education programs in the Northwest region. Prior to joining NEEA in 2019, she was a utility incentive program implementation manager at CLEAResult and worked on commercial lighting incentive programs at PECL.

Michael Tillou, PNNL



Michael Tillou joined PNNL in 2020 as a Senior Research Scientist. He supports PNNL's commercial energy code development team providing technical analysis and support for cost-effective upgrades to national model energy codes and standards including ASHRAE Standard 90.1 and the International Energy Conservation Code. Michael has worked for over 25 years as an energy analyst supporting the design and operation of high-performance buildings, analyzing complex building systems, and, providing training to code officials and design professionals. He has combined his expertise in code development and building simulation to become a leader in the effort to transition to performance based energy codes.

Angela Tovar, City of Chicago



Angela Tovar has worked as a community planner, program manager and climate and environmental justice advocate for over 15 years. In 2020, Angela was appointed as the Chief Sustainability Officer for the City of Chicago by Mayor Lori Lightfoot. Angela has committed to centering the City of Chicago's climate and sustainability agenda on equity and mitigating environmental harm in Chicago's most overburdened and underserved communities. Angela began her career in the public sector in 2019 as a Program Manager for Cook County Department of Environment and Sustainability where she focused her efforts primarily on clean energy programming. Prior to that, Angela worked in the South Bronx for over a decade, first as the Director of Policy for Sustainable South Bronx and later as the Director of Community Development for the POINT CDC. In these roles, Angela oversaw community partnerships, advocacy and environmental justice efforts, and climate mitigation, including the development and implementation of a community-based climate resiliency plan known as The South Bronx Community Resiliency Agenda. Angela's passion for social and environmental justice stems from her experience growing up on the industrial waterfront of Lake Michigan on Chicago's Southeast side. She holds a B.A. in Urban Studies from the College of Charleston and a Masters in Urban Planning from City University of New York - Hunter College.

Will Vicent, California Energy Commission



Will is dedicated to reimagining our built environment into one that is more inspired, more ecologically intelligent, and more equitably distributed. Throughout his career he has worked collaboratively with nationally recognized design firms, builders, developers, utilities and research entities to actualize verified zero emission buildings. Currently, he



leads an all-star team at the California Energy Commission who are responsible for maintaining and updating California's Energy Code, its companion software, and outreach & education programs. Will has accepted invitations to speak and empower through connection at the nation's largest clean energy events, universities, and the White House. In 2019, he received the Net Zero Trailblazer award for his leadership in decarbonizing our built environment.

Gayathri Vijayakumar, Steven Winter Associates



Gayathri Vijayakumar is a Principal Mechanical Engineer at Steven Winter Associates, Inc, with over 17 years of experience supporting high-performance multifamily buildings. She graduated from Pennsylvania State University with a BS in Engineering Science and from the University of Wisconsin-Madison with a MS in Mechanical Engineering and a Graduate Certificate in Energy Policy and Management. Gayathri currently provides technical support to the EPA's Indoor airPLUS program and ENERGY STAR Multifamily New Construction programs. She currently is an ASHRAE Building Energy Modeling professional, Chair of RESNET's Standards Development Committee, SDC300, and voting member of the 2024 IECC Residential Consensus Committee.

Christina Volpi, U.S. DOE



Christina Volpi is a Physical Scientist at the U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy, Building Technologies Office. She works on the operations team and serves as a Technical Project Officer across all Building Technologies Programs.

Mike Waite, ACEEE



Michael Waite, PhD, P.E. is Senior Manager in the Buildings Program at the American Council for an Energy-Efficient Economy (ACEEE). He conducts research related to building energy and lifecycle decarbonization and steers ACEEE's codes and standards efforts. Mike leads initiatives that root energy code development and implementation in sound and innovative research in order to reduce greenhouse gas emissions and promote energy affordability in new and existing buildings. He collaborates with others at ACEEE to align building policy with emerging climate policies. Mike is a voting member of ASHRAE SSPC 90.1 and the International Energy Conservation Code (IECC) Commercial Consensus Committee, as well as ASHRAE/ICC SPC 240P (Quantification of Life Cycle Greenhouse Gas Emissions of Buildings). Prior to joining ACEEE, Mike worked as a research scientist in the Sustainable Engineering Lab at Columbia University where he investigated energy transition issues in the built environment, focusing on space heating in cold climates and the role of electricity and fossil fuel infrastructure in pathways to energy decarbonization. Previously, he was a senior building technology engineer in the architecture, engineering and construction industry. Mike holds a PhD and a MS in mechanical engineering from Columbia University and a BS in mechanical engineering and physics from Clarkson University. He is a licensed Professional Engineer in New York and California.



Jeremy Williams, U.S. DOE



Jeremy Williams is the Acting Building Energy Codes Program Manager with the U.S. Department of Energy (DOE) Building Technologies Office. He directs projects related to building energy efficiency, and specializes in energy codes which help U.S. homes and businesses in becoming more efficient, healthier, more productive, and more resilient.

For over 10 years, he has represented the Department in its code research and development activities, and is a voting member of the IECC and Standard 90.1 technical committees. Jeremy has also led DOE's code technical assistance initiatives, which support states and local governments in successfully implementing their codes. His educational background includes an M.S. degree in Construction Management from Michigan State University, and a B.S. in Business and Education.

Cornelia Wu, NEEP



Cornelia Wu, Senior Manager, Codes and Standards - Cornelia brings to her role nearly two decades of experience in building science, design, management, and construction. At NEEP she provides technical assistance on building energy codes and standards to states and municipalities in the NEEP region and facilitates the Massachusetts Net Zero

Buildings Coalition and the Maine Energy Code Collaborative. She is currently partnering with states to disseminate NEEP research on the energy efficiency benefits of off-site construction, as well as trends and protocols regarding remote virtual inspections. Cornelia holds a Bachelor of Arts, magna cum laude, from Columbia University, as well as a Master of Architecture and a MPA in Environmental Science and Policy, both also from Columbia University. She is a licensed architect in New York State, LEED Accredited Professional BD+C, and Certified Passive House Consultant (CPHC).