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Court Found	2011 NYC Energy Conservation Code  UPDATE: Apply NOW to participate in the Energy Code Performance Pilot Program!  Apply NOW to participate in the Energy Code Performance Pilot Program!  Apply Now to participate in the Energy Code Performance Pilot Program!  Apply Now to participate in the Energy Code Performance Pilot Program!  Apply Code Performance Pilot Performance Pilot Program!  DOB and PNNL hosted a Performance Pilot Q&A Webinar on August 20, 2021:  view the resorted webinat:  view the resorted webinat  view the NYC Energy Code Pilot Overview + Q/A.	€ ♥ € Dare ♥ Pre	RESIDENTIAL PROVISIONS CHAPTER R2 DEFINITIONS CHAPTER R3 GENERAL REQUIREMENTS CHAPTER R4 RESIDENTIAL ENERGY EFFCIENCY CHAPTER R5 REFERENCED STANDARDS COMMERCIAL PROVISIONS CHAPTER C2 DEFINITIONS CHAPTER C4 COMMERCIAL ENERGY EFFCIENCY CHAPTER C4 CHAPTER C5 CHAPTER C5 CHAPTER C4 CHAP	Z



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## Which Path to Follow... The Yellow Brick Road.



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## Panelist



Kyle C. MacKenzie, P.E. LEED AP BD+C, Electrical Engineering Department Director/ Principal, Polise Consulting Engineer D.P.C.,

Committee Member IESNYC's New York City Lighting Council

With over 15 years of design and construction experience, Kyle is an electrical engineer who is well versed in designing and managing complex and large-scale building projects. Dedicated to the NYC engineering design community, Kyle is a member of several engineering committees and societies both appointed and voluntary, including a group that is drafting the next New York City electrical code. Kyle holds a Master of Science degree in Energy Management and is licensed in the states of New York, New Jersey, and Colorado. In addition to Kyle's design experience prior to entering the design community Kyle spent 4 years working for a mechanical contractor and an electrical contractor installing the systems he now specifies.













2020 NYC Energy Conservation Cod "City Path"	le	ASHRAE 90.1-2016 with NYC Amendments "ASHRAE Path"		
C405 Electrical Power and Lighting Systems	Alterna Appe	ate Path:	Section 9 Lighting	









## Panelist



#### Jim Conti, Principal, Jim Conti LightDesign

#### Committee Member of the IESNYC's New York City Lighting Council

Complete lighting design services for a wide range of project types. Emphasis is placed on architecturally integrated solutions and the relationships between form, surface finish and illumination. Illumination concepts are generated considering architectural integration with visual and psychological emphasis, addressing how a space both looks and feels.

Education projects include the NJIT Central King Building & Saint Ann's Bosworth School with Marvel Architects, Trinity School NYC & Stephen Gaynor Early Learning Center with Rogers Partners and New Settlement Community Campus with Edelman Sultan Knox Wood & Dattner Architects. Public projects include the restoration of McCarren Pool in Brooklyn and the illumination of the Manhattan Bridge Anchorage, both with Rogers Marvel Architects. Park projects include Cowles Commons in Des Moines, Iowa, Orange County Great Park (converted from the former El Toro Airbase) in Irvine, CA and the Santa Fe Railyard Park with Ken Smith Landscape Architects.

Art projects include interactive building façade Show Your Stripes, activated by through telephone commands in San Jose, CA and a NYC Department of Cultural Affairs Commission for "Core", a series of environmentally activated light towers along the Gowanus Canal. Award winning projects in downtown Manhattan include illuminated art installation "Glowing Topiary Garden", illumination of the largest gemcut quartz crystal in the world as a part of a memorial at American Express Headquarters and lighting design for the Elevated Acre and Beacon at 55 Water Street Plaza.





2020 NYC Energy Conservation Code ASHRAE 90.1-2016 with NYC Amendments Everyy Standard for Bailding Except Low-Rise Residential Bailding "City Path" "ASHRAE Path" -----Section 9 C405 Alternate Path: Lighting **Electrical Power and** Appendix CA **Lighting Systems Building Area Method** TABLE C405.3.2(1) INTERIOR LIGHTING POWER ALLOWANCES: BUILDING AREA METHOD BUILDING AREA METHOD Table 9.5.1 Lighting Power Density Allowances Using the Building Area Method LPD (watts/sq.ft) Building Area Typ LPD, W/ft Automotive facilit Automotive facility 0.64 bar lounge/ 0.70 Convention center family Courthouse 0.74 Dining: Bar lounge/leisure 0.69 0.50 0.67 0.68 Dining: Cafeteria/fast food 0.66 ).86 ).70 ).70 ().78 ().60 Dining: Family 0.61 Dormitory<sup>b</sup> 0.52 0.62 a. In cases where both a general *building* area type and a specific *building* area type are listed, the specific *building* area type shall apply.
 b. Neither the area of the dwelling units nor the wattage of lighting in the dwelling units is counted. ther the area the dwelling units is co ing garage Performing arts theater 0.85 0.68 Health-care clini 0.68































2020 NYC Energy Conservation Code ASHRAE 90.1-2016 with NYC Amendments Everyy Standa for Buildin Except Low-Ri midential Policy 'City Path" "ASHRAE Path" **Mandatory Control Requirements Lighting Control Basics:** 1. Motion sensors- Turn on or off or both lighting when space goes from unoccupied to occupied to unoccupied a. Occupancy Sensors: Auto On – Auto Off b. Vacancy Sensors: Manual On - Auto Off c. Passive Infrared, Ultrasonic, or Dual Technology 2. Manual Control 100 Wall Switch Ceiling Integral













Which Parts of the Codes Effect Lighting Design?



# Panelist



#### Lee Brandt, IALD, LC, Principal, HLB Lighting Design

Lee discovered lighting during her studies at Penn State University and received her Bachelor's and Master's of Architectural Engineering there. Lee leads the Energy Standards/LEED team within HLB's Daylighting & Sustainable Design Studio and serves on IALD Energy & Sustainability Committee. She has served on the NYC Energy Conservation Code Advisory Committee for the past two code cycles. She is also a practice leader in the design of hospitality projects and works on many other project types as well. In her principal duties, she runs the NYC office studios and leads the teamwork and talent side firm wide.





The Good the Bad and the Beautiful - Looking for the Silver Lining.



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## Panelist



#### Addison Kelly, Principal, US Lighting Consultants

Chair of IESNYC's New York City Lighting Council

Addison Kelly, IALD is founder and principal of US Lighting Consultants in New York City. Projects have ranged from entertainment complexes and shopping centers to offices and residences, in the US as well as Europe, South America and the Middle East.

Ms. Kelly has a strong graphic design background and trained at Parsons School of Design. She has lectured and taught classes at Parsons, NYSID and SVA, as well as at LIGHTFAIR and the IES Annual Conference.

She is a Past President of the IESNYC, and serves as Co-Chair of the Board of the Richard Kelly Grant. The purpose of the Grant is to recognize and encourage creative thought and activity in the use of light. Ms. Kelly is also Co-Chair of the New York City Lighting Council, which is tasked with keeping the New York lighting community informed of code updates and technology developments; and is Co-Chair of the History Committee of the IESNYC.



